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OUR COMPLETE  
ANNUAL CATALOG

HIGHEST <sup>of</sup> QUALITY

®

# SEEDS

BULBS PLANTS ROSES  
BIRDS POULTRY AND  
GARDEN SUPPLIES

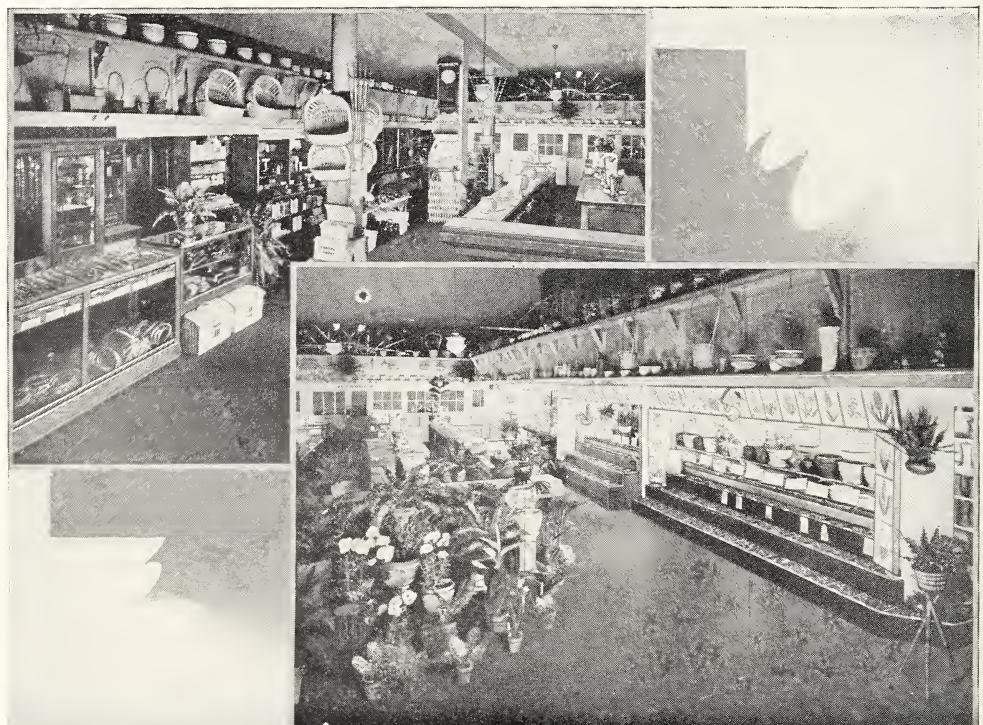


Routledge  
Seed & Floral Co.

PORTLAND, ORE.



MAIN PART OF OUR SALESROOM AT OUR EAST SIDE STORE



MAIN PART OF OUR SALESROOM AT OUR WEST SIDE STORE

# 1930 — OUR 21ST ANNUAL CATALOG — 1930

A Truthful, Reliable Western Catalog for Western Buyers

Greetings to Our Customers and Friends:

JAN 25

Portland, Oregon, January 1, 1930.  
On this New Year's Day we extend to all our customers and friends the "season's greetings." We wish you a very happy, prosperous and successful new year.

We have re-written and revised this catalog and made it right up to date. Some stocks have been discarded and others of increased value added.

We have made prices very low, although increased costs and some short crops really do not warrant it, but we'll hope to gain by increased business.

Remember, our motto is "Quality First," then prices as low as we can make them. We are catering to the planters, gardeners and poultry and pet stock keepers that appreciate "Highest Quality" and good service. We are in close touch with the world's best markets and know that our "prices" and "quality" are right. Thousands of our customers testify to this. You will find a few reports scattered throughout this catalog. These unsolicited reports are encouraging and our rapidly increasing business leads us to believe we are supplying satisfactory stocks and giving efficient service. See illustrations of our East and West Side Salesrooms, inside front cover.

We certainly appreciate the support given us and thank you sincerely for past orders, and hope that we will have the pleasure of serving you again this year.

## Routledge Seed & Floral Co., Inc.

**NEW EAST SIDE STORE AND WAREHOUSE**, Grand Avenue, corner East Stark.

**MAIN OFFICE, MAIL ORDER, RECEIVING DEPT.**, Grand Ave., corner East Stark.

**WEST SIDE STORE**, 45-147 Second Street, between Morrison and Alder.

### U. S. PARCEL POST RATES AND REGULATIONS

**BY PARCEL POST.**—We do a direct mail order business with our customers. This enables us to give you direct and personal attention, quick service and lower prices.

### Size and Weight of Parcel Post Packages

Packages cannot be sent that measure over 84 inches in length and girth combined. The weight limit for the local, first, second and third zones is 70 pounds. The weight limit for the third to eighth zones is 50 pounds, except as follows:

**ALASKA, MEXICO, CUBA, HAWAII, PANAMA and the PHILIPPINES** take the 8th zone rate with a **WEIGHT LIMIT OF 20 LBS.** Note.—Postage must be added in lb. lots or over.

**CANADA** postage rate is 14¢ for every pound or fraction thereof with a **WEIGHT LIMIT OF 15 LBS.** ADD LB. POSTAGE IN LB. LOTS OR FRACTIONS THEREOF.

### Zones

### Postage Rates

First and second zones .....	50 to 150 miles, first lb.	7¢ and each additional lb. or fraction	1¢
Third zone .....	150 to 300 miles, first lb.	8¢ and each additional lb. or fraction	2¢
Fourth zone .....	300 to 600 miles, first lb.	9¢ and each additional lb. or fraction	4¢
Fifth zone .....	600 to 1,000 miles, first lb.	10¢ and each additional lb. or fraction	6¢
Sixth zone .....	1,000 to 1,400 miles, first lb.	11¢ and each additional lb. or fraction	8¢
Seventh zone .....	1,400 to 1,800 miles, first lb.	13¢ and each additional lb. or fraction	10¢
Eighth zone .....	all over 1,800 miles, first lb.	14¢ and each additional lb. or fraction	12¢

**ALL MISCELLANEOUS MERCHANTISE** offered in this catalog **THAT CAN BE SENT BY PARCEL POST** is marked P. P. and the **PACKED WEIGHT** is given so that extra money for **POSTAGE** can be remitted according to the table above, **OTHERWISE** we will send by freight or express. Read page 4.

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OUR FALL CATALOG READY ABOUT SEPTEMBER 1ST

Our Fall Catalog of Flowering Bulbs is issued about September 1 each season. If you would like a copy, make your request at any time and we will put your name on the mailing list for catalog in season.

# READ What WE Do and What YOU Should Do READ

## FORWARDING CHARGES

The following rules apply to the states west of the Rocky Mountains, that is, OREGON, WASHINGTON, CALIFORNIA, IDAHO and MONTANA.

**ALASKA and OTHER STATES.**—Customers ordering from other states must add postage on all items other than Seeds by the pound or less and Bulbs and small plants (see rate table, page 1), if wanted by mail, otherwise shipment will be made by express or freight, transportation charges collect.

### By Mail or Parcel Post

On Cash Orders we will at prices printed in this catalog send by prepaid parcel post all Seeds in packets, ounces or single pounds, anywhere in the United States.

Small Plants (not potted), Bulbs and Roots are postpaid, unless otherwise stated.

**SEEDS IN BULK.**—When you order Seeds in quantity above 1 lb., add postage, unless otherwise stated. (See parcel post rates, page 1.)

**TOOLS, SUPPLIES, FOODS, REMEDIES, ETC.**—On this class of goods we have marked the

parcel post weight, including packing (PP. Wgt.), so that you can add postage to catalog prices if you want them by parcel post. PP. Wgt. does not mean postpaid.

**SMALL FLOWERING SHRUBS, SMALL FRUIT, BERRY and ORNAMENTAL SHRUBS and PLANTS, CLIMBING VINES and 2-YEAR-OLD ROSE BUSHES** can be sent by parcel post if necessary, but be sure you send extra money for packing and postage. Postage and packing charges will be specified on the different pages.

**NOT MAILABLE.**—Plants in pots, large branching Shrubs, Evergreens, Trees and Shrubs of all kinds, that must be balled in earth. Fruit and Shade Trees cannot be sent by Parcel Post. Neither can Insecticides that are poisonous, Flower Pots, Jardinieres, Bird Cages, or Non-Poisonous Liquids in larger than 1-pint cans.

### By Freight or Express

WE DO NOT at catalog prices pay freight or express charges on any stock we offer, unless so stated; therefore, take note of the following paragraphs:

**ORDER EARLY.**—We aim to execute all orders as soon as received, but during the rush season, March and April, short delays may occur, which, however, can be overcome by our patrons anticipating their wants and ordering and taking delivery of their requirements early.

**CORRESPONDENCE.**—We try to give prompt attention to all proper letters of inquiry, etc., but ask, as a favor, that all questions be stated clearly and briefly, and not on order sheets.

**OUR TERMS ARE STRICTLY CASH.—NO. C. O. D. SHIPMENTS.**—The proper remittance must in all cases accompany the order. Send money by bank draft, postoffice or express money order. Personal checks if of O. K., also postage stamps for small amounts. We will not be responsible for stamps or coin sent in unregistered letters.

**LARGE ORDERS.**—Any gardener, institution or individual wishing seeds, plants, trees or supplies in large quantities is requested to mail a list of what is wanted, stating grade, size or amount, and we will promptly return it with our very lowest prices. A letter of inquiry may save you dollars if you want to buy in QUANTITY, or some PARTICULAR STOCKS.

**PREPAY STATIONS.**—When you send in orders to go by freight or express be sure you send extra money to pay the transportation charges if your station is a prepay point, which is always the case where there is no regular agent. If you send more than enough, we will refund it as soon as we get the prepay bill. If not enough, we will write for the balance and expect you to remit promptly.

**SEASONABLE STOCKS.**—Many customers order plants and bulbs out of season—that is, before we get stocks in or perhaps too late in the spring. Rather than delay the balance of your order, we will send what is seasonable at once and defer the balance until proper planting season unless otherwise instructed.

**REPORTS—GOOD OR BAD.**—Will you help us to attain greater success by writing and telling us how your Seeds and Supplies reach you, how they grow and how you like them? We will certainly appreciate it. Your criticisms, if you have any, as well as your praises, are desired.

**MISTAKES.**—These will happen occasionally, in spite of all care. Write us at once, with copy of original order, if possible, and mistakes will be promptly rectified.

**NOTE.**—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.: We give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, nursery stock, roots or plants sent out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on ROUTLEDGE SEED & FLORAL CO., Inc.

## ASPARAGUS

**CULTURE.**—Plant roots in well drained soil about two feet apart in the row and five to six feet between rows for field culture; much closer for home gardens. The seed is of slow germination and should be planted early in the season.

**MARY WASHINGTON.**—The strain we offer has been produced from seed of the most uniform rust-resistant, highest yielding, largest in size and quickest-growing plants. A very profitable variety.

Pkt. 10c; oz. 30c; 4 oz. 90c; lb. \$2.50

## ARTICHOKE

**LARGE GREEN GLOBE.**—The well-known French vegetable; the undeveloped flower heads, when properly prepared, make a most delicious dish.

Pkt. 15c; oz. \$1.25

**White Jerusalem.**—Tubers grown for stock. See page 42.

**ASPARAGUS ROOTS.** You can save two or three years' time by buying Asparagus Roots. For prices, see Vegetable Roots, page 97.

## GARDEN BEANS

### DWARF OR BUSH GREEN PODDED KINDS

**PRICES.**—Pkt. 10c;  $\frac{1}{2}$ -lb. 25c; lb. 45c prepaid; 10 lbs. \$3.50, postage extra

#### STRINGLESS GREEN POD

This famous Bean is unequaled as a first-early; also for main crop.

It combines unusual hardiness, extreme earliness, and wonderful productiveness with handsome appearance and finest quality of pods.

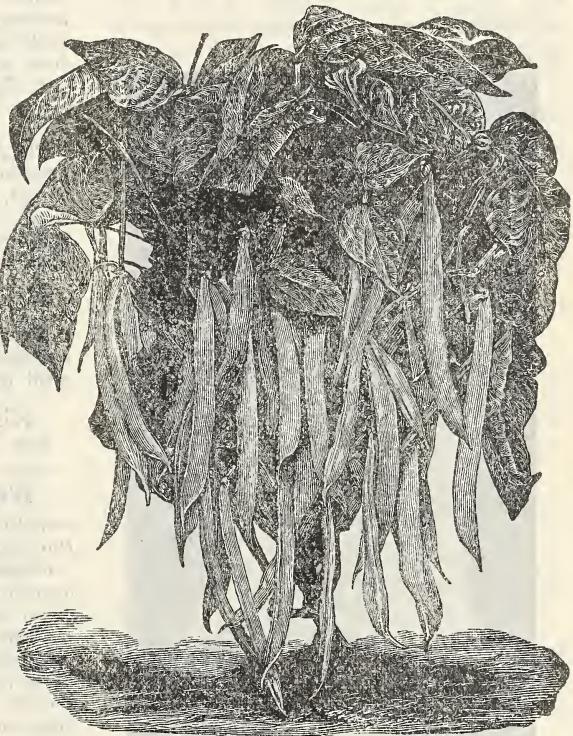
By repeated plantings pods may be had in constant succession from spring until cut off by heavy frosts in the fall. The pods are of the finest quality, of a rich green, very round and slightly curved, medium long, solid, meaty and plump. The pods are tender, brittle, and of finest flavor, always entirely stringless even when fully grown.

#### STRINGLESS REFUGEE

An improved stringless strain. Very hardy and extremely productive. Pods round and straight, tender, brittle, absolutely stringless and of finest quality; medium early. Unsurpassed for picking or canning. Second early.

#### DWARF HORTICULTURAL

The best dwarf sort for green shell beans. Plants very productive, pods broad and thick, with splashes of bright red on a yellowish ground. They become fit as green shelled beans early; are large, easily shelled, large and fine quality.



#### DWARF OR BUSH LIMA BURPEE'S IMPROVED BUSH LIMA.

Best of the Bush Lima type. Very large, broad pods, excellent flavored beans, borne on large, vigorous plants. Extremely prolific. Pods contain from four to six very large beans of greenish-white color. See prices above.

## BEANS—Continued

## DWARF OR BUSH—YELLOW PODDED

Prices.—Pkt. 10c;  $\frac{1}{2}$ -lb. 25c; lb. 45c postpaid; 10 lbs. \$3.50, postage extra.

## WARDWELL'S KIDNEY WAX

A popular and well-known variety; pods long, golden-yellow, brittle and stringless; seed white, with dark markings about the eye. Market gardeners find this bean one of the most profitable.

## DAVIS KIDNEY WAX

Hardy and productive. The pods are long and straight, light cream, excellent quality, good shippers. Seeds white and make good dry bean for winter.



New Brittle Wax



## PENCIL POD BLACK WAX

Early and Stringless

A prolific cropper, superlative quality, handsome yellow pods 6 to 7 inches in length, fleshy but almost round, very meaty and sweet and perfectly stringless. Plant is free branching, but perfectly sturdy and upright. Valuable for its productiveness and disease-resisting qualities.

## IMPROVED GOLDEN WAX

Medium early, heavy cropper, vine vigorous. May be sown early or late with the assurance of a good crop. Pods are golden yellow, fleshy and solid, brittle, waxy texture and have an exceptionally rich, buttery flavor.

## NEW BRITTLE WAX

Extremely early, heavy cropper. The handsome pods are nearly straight, long, round, fleshy, tender, "brittle" and entirely stringless at all stages of growth. Quality unsurpassed. Seed almost white, showing only a small dark dot at the eye.

## SURECROP STRINGLESS WAX

Pods long, straight yellow that are well rounded, very meaty and solid. Rich and mild in flavor and entirely stringless.

## KENTUCKY WONDER WAX

See Pole Beans, page 8.

## What Do You Think of This?

Routledge Seed & Floral Co.  
Portland, Oregon

Gentlemen: My husband, whose hobby is gardening, brought home a package of the Giant seed, but I never had canned any but Kentucky Wonder and in our nine years of gardening was all we had raised. I made it quite plain to Mr. that he was sold on the picture and when you have friends both tried and true change not the old one for the new, etc., but I apologize.

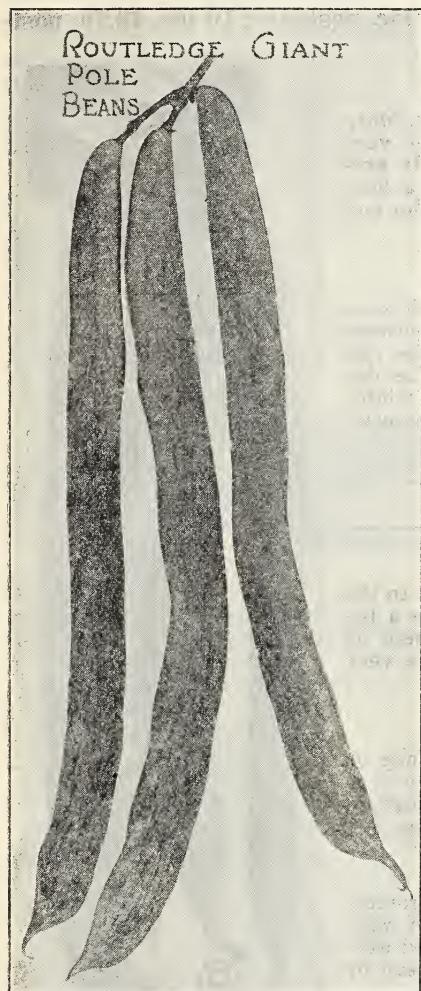
We planted the pole, then beans on each side of the pole. There were eight double hills of Giants. From them I put up 30 quarts, gave away half that many more and used from the vines for the table all summer long. There were a great many 16 inches long and still tender. They were also a week earlier, altho planted the same time as the Kentucky Wonder.

MRS. NELLA RICH.

## Routledge Giant Pole Bean

### Of Superb Quality — Entirely Stringless

If you have not grown this bean, by all means do so this season. It is a quick grower, quite early and produces the MOST WONDERFUL LONG, PLUMP, MEATY PODS that are TENDER, BRITTLE and of DELICIOUS MILD FLAVOR when cooked.



Above pods about one-third natural size when full grown

Washington, April 12, 1929  
Routledge Seed & Floral Co.

Portland, Oregon

Gentlemen: Please send me one package of Routledge Giant Pole Beans. They are the most wonderful bean I have ever seen grown.

MRS. W. L. WAGNER.

It produces an ENORMOUS LOT of GIANT PODS from early in the season until frost.

We have been trying for years to grow enough seed to supply all our customers. Locally they keep green so late that the fall rains and frost spoil the seed.

The mammoth 10 to 12-inch pods of ROUTLEDGE GIANT picked in their prime are ENTIRELY STRINGLESS. The QUALITY IS SUPERB for canning or used fresh as a stringless "snap" bean. As a SALAD BEAN whole or sliced, and served with dressing it is DELICIOUS. The pale green pods are lightly penciled with carmine which disappears when cooked. See illustration, one-third natural size. Large pkt. 20c;  $\frac{1}{2}$ -lb. 35c; lb. 60c

NOTE.—You better order early this year. We run out of "Giant" beans most every year.

### A Few Convincing Reports

Oregon, February 16, 1929  
Routledge Seed & Floral Co.  
Portland, Oregon

Gentlemen: Enclosed find 60 cents, for which please send me Routledge Giant Pole bean seeds. There never was nor never will be a better bean. I don't see how you did it but, thank heavens, you did.

Yours truly,  
C. J. RASMUSSEN.

Washington, April 1, 1929  
Routledge Seed & Floral Co.  
Portland, Oregon

Gentlemen: We have grown the Routledge Giant Beans three years and think they are the best we ever had. Yours truly,  
MRS. FRED D. CAMPBELL.

Washington, April 11, 1929  
Routledge Seed & Floral Co.  
Portland, Oregon

Gentlemen: I had ordered some Routledge Giant Pole beans from you once before and think that they are just wonderful, they are so good for canning that I want some more.

MRS. A. E. KAUFFMAN.

FOR THE HOME GARDEN WHERE SPACE IS LIMITED POLE BEANS ARE MOST DESIRABLE AS THEY ARE MORE PRODUCTIVE AND REQUIRE LESS GROUND SPACE.

## CLIMBING POLE BEANS — Continued

Although pole beans require a little more care and labor, they are, when properly grown, usually of longer bearing period than the dwarf sorts and are much more productive. Plant 6 to 8 beans in hills 3 feet apart. Use poles or heavy twine dropped from heavy overhead wires (hop-yard style).

**Bean Prices.**—Pkt. 10c;  $\frac{1}{2}$ -lb. 25c; lb. 45c, postpaid; 10 lbs. \$3.50, postage extra.

### Improved Kentucky Wonder (Asparagus)

A very popular variety; often sold as asparagus. More extensively planted than any other. Pods green, very long, round and perfectly stringless. Enormously productive and early, remaining in "fit" condition a long time. Unsurpassed for the table, being very tender and of delicious flavor.

### Routledge Perfection White Seeded

It produces large, quick growing vines which soon cover the poles, bearing a very heavy crop of handsome long green pods, which are very meaty, stringless and of delicious flavor. Excellent for canning. The dry beans being white, make an excellent bean for winter use. A re-selected strain of White Seeded Kentucky Wonder. (See illustration.)

### Routledge Giant (See Page 7)

### Kentucky Wonder Wax

The best wax podded pole bean. Very similar to the green podded Kentucky Wonder but the pods are a little broader. They are very fleshy and stringless as snaps and are of excellent quality. The pods are very long, handsome light yellow.

### Lazy Wife

Excellent late green podded pole beans for snap or green shell use. Pods borne in large clusters, 5 to 6 inches long, broad, thick, fleshy and entirely stringless. They have a rich, buttery flavor until nearly ripe.

### Horticultural Pole

**Speckled Cranberry or Wren's Egg.**—Vines vigorous, quite early. Pods short, broad, green streaked with bright red. Beans are round, splashed and spotted with red. Of fine quality, either as a green shelled bean or dry for winter use.

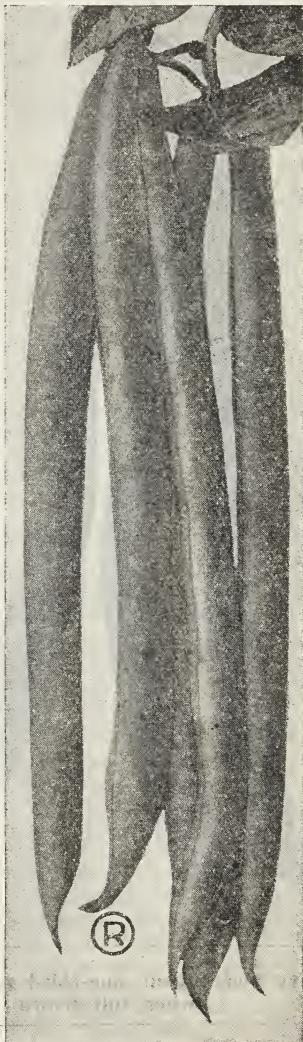
### Scarlet Runner

Grown extensively for ornamental purposes, as flowers are a most brilliant scarlet; beans are broad and flat.

### Oregon Pole Lima

Excellent for the Northwest. Strong, vigorous grower. In July the blooms come in long panicles from the top shoots and the large, broad pods are freely produced. The large, plump, white beans are of delicious quality, green, shelled or dry. They are in "prime condition" when the pods begin to turn yellow. Oregon grown, acclimated seed.

Large pkt. 15c;  $\frac{1}{2}$ -lb. 25c; lb. 50c



Routledge Perfection

## Commercial or Dry Table Beans

The stocks we offer are of known varieties, acclimated and hand-picked and grown especially for seed—by far the safest, best and most profitable in the end.

All Bean Prices Postpaid, except 10-lb. prices. Write for low 100-lb. prices.

### IMPROVED TREE BEAN

Early, Wonderful, Productive

The dry bean is small, white, plump and almost round. Cooking and eating qualities are unsurpassed. Matures a week earlier than Lady Washington and is very productive. Our stock of this particular strain is rather limited, so order early.

Pkt. 10c; lb. 45c; 10 lbs. \$3.50

Lady Washington.—A great improvement over the old "White Navy," as it is much earlier; especially adapted to Western conditions.

Pkt. 10c; lb. 45c; 10 lbs. \$3.50

Castor Bean.—Used for medicinal purposes and by some claimed to keep moles away. Ornamental foliage, 4 feet.

Large pkt. 20c; lb. \$1.00

Brown Swedish.—The dry beans are small, round, oblong, golden brown. Excellent quality, very productive.

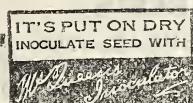
Pkt. 10c; lb. 35c; 10 lbs. \$3.00

Red Mexican.—Used extensively for baking and Spanish dishes.

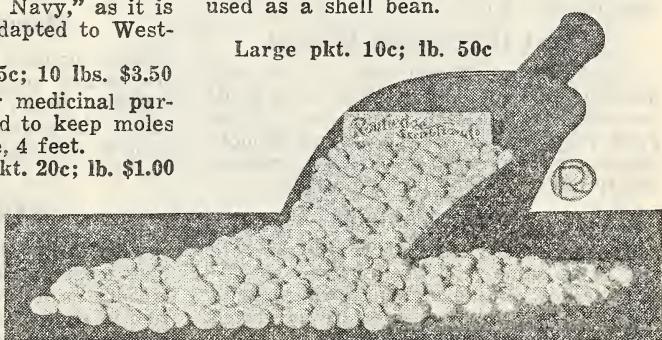
Pkt. 10c; lb. 35c; 10 lbs. \$3.00

Broad Windsor.—An English variety; large, broad, flat beans of delicious flavor; used as a shell bean.

Large pkt. 10c; lb. 50c



See page 39



Improved Tree Beans

## BROCCOLI — Winter Cauliflower

Forms a head like a cauliflower, but is much hardier; stands wet and cold better. For fall use sow White French in March or April; St. Valentine in June, for the following spring.

### ROUTLEDGE "H. Q."

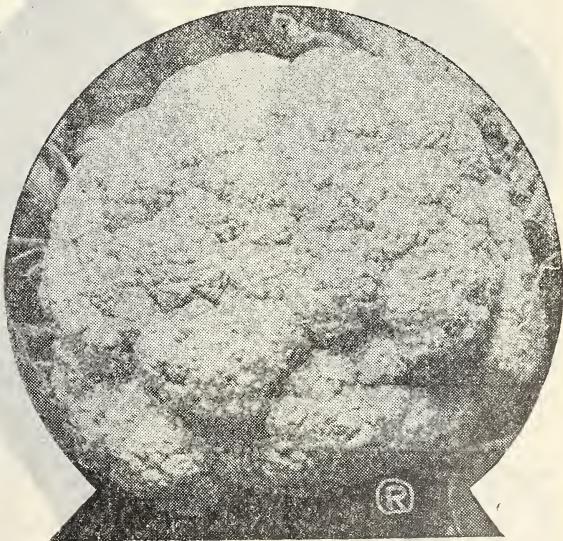
(Highest Quality)

### ST. VALENTINE

In this seed we are offering our customers a very select, high-grade strain of the well-known St. Valentine. Seed saved from only the most perfect heads, those showing the most desirable leaf formation for the protection of the developing head and those of large size and perfect compact heads, free from small center-head leaflets. Our "H. Q." seed will produce the highest per cent of perfect heads and bring the "top" price.

The H. Q. St. Valentine seed we are offering this year is from just such perfect heads as shown herewith. It comes from the originators of this now famous variety.

Pkt. 15c;  $\frac{1}{4}$ -oz. 50c; oz. \$1.50;  
4 oz. \$5.00; lb. \$16.00.



"H. Q." St. Valentine Broccoli

### White French Broccoli

A select early strain, producing fine white heads of large size and excellent quality in the fall.

Pkt. 10c; oz. 90c; 4 oz. \$3.00

## Stock Beets or Mangels

Excellent winter feed for horses, cattle, sheep, hogs and chickens. When fed in combination with grain or mash they are worth almost as much, pound for pound, as the grain. This statement may seem absurd, but experience has proved that Mangels so aid digestion and assimilation by keeping the animals in a healthy condition, that they increase the feeding value of other feeds consumed, besides the nutrients the roots contain. Every farmer and poultryman should raise Mangels.

### Giant Yellow Eckendorf

A new mangel of great merit. The roots are smooth, long and cylindrical in shape, very heavy, weighing up to 15 and 20 pounds each; grow two-thirds above the ground. The flesh is firm, crisp and solid, white in color and of high feeding value. (See cut No. 3.)

### Giant Half Sugar Mangel

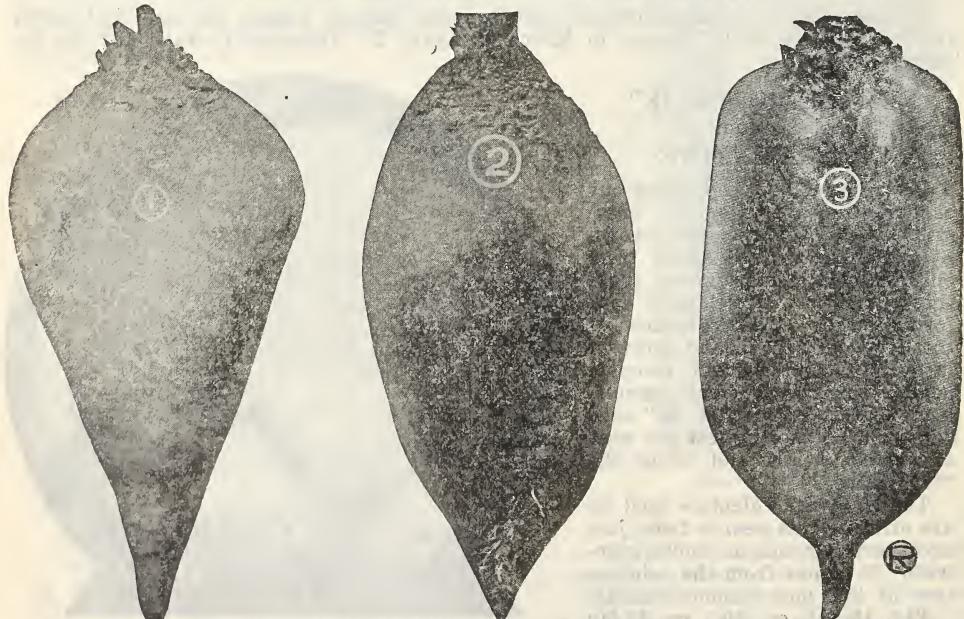
Yields as much per acre as the best Mangels, and twice as much per acre (bulk or roots), as the rich sugar beet. Roots grow very large above the ground. Smooth, creamy white in color and very nutritious. Easily pulled. (See illustration No. 1.)

### Golden Tankard

An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep-yellow, of fine shape, growing largely above ground, thus being easily harvested. (Same shape as cut No. 3.)

**PRICES:** Your choice of above varieties: Pkt. 10c; oz. 15c; 4 oz. 25c; lb. 60c

**NOTE.**—In 5-lb. or 10-lb. lots, 10c per lb. less; write for quantity prices.



(1) Giant Half Sugar

(2) Danish Sludstrup

(3) Giant Yellow Eckendorf

Write for quantity prices. For amount of seed per acre, any kind, see "Seed Table," inside back cover.

### Danish Sludstrup

An improved variety, considered one of the best. Awarded first class certificate. Color, reddish yellow, and of a distinct type. It is very hardy, grows well above ground; is easily pulled; very nutritious. (See Cut No. 2.)

### Mammoth Long Red

Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the ground; roots quite regular; attain a very large size. (Same shape as No. 2.)

### SUGAR BEETS

**FRENCH WHITE SUGAR.**—The sugar beet most generally grown; most popular variety as it produces a large crop and is rich in sugar value. The young beets are fine for table use.

## TABLE BEETS

### Routledge Favorite

The best of all for home gardens. A re-selected, improved strain of Crimson Globe. Perfectly globe shaped, with a single tap root, and of the richest color of any of the beets. It is medium early, tops are small and dark in color, a splendid keeper, remaining in prime condition a long time. The flesh is exceedingly tender, fine and sweet and is unequalled for table use. Home and market gardeners will find our Favorite very profitable, attractive and of highest quality.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.50.

### Crosby's Egyptian

Popular variety for home gardens and market. Extremely early and reaches table size quickly. Tops dark green, beets very smooth, fine color, globeshape, slightly flattened. Flesh rich red, fine grained, sweet and tender.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.00.

### Detroit Dark Red

Excellent variety, nearly globular, dark skin and rich red flesh, maturing early and keeping crisp and tender for a long time. Very popular with market gardeners and canneries. Pkt. 10c; oz. 20c; 4 oz. 40c; b. \$1.

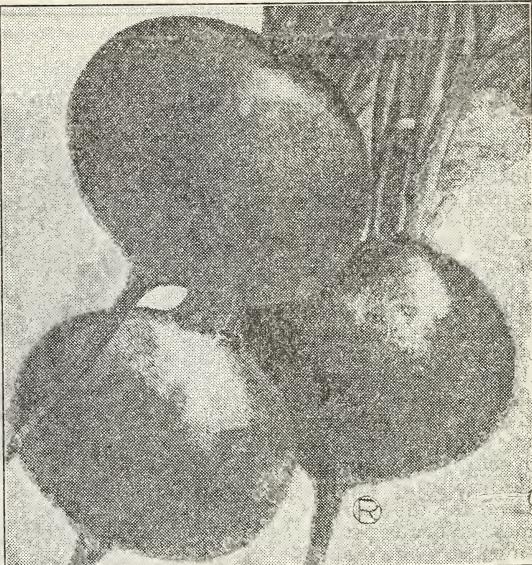
### Improved Early Blood Turnip

Roots dark red and nearly round, slightly flattened. Flesh deep red zoned with lighter shade; sweet, crisp and tender. An excellent sort for summer and fall use.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.00

HALF LONG BLOOD.—Quite popular. Excellent in shape and quality; yields well.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.00



Routledge Favorite

## SWISS CHARD, Or Spinach Beet

**GIANT LUCULLUS.**—The leaves of this vegetable are used for "greens" and prepared in the same manner as Spinach; sometimes, however, the mid-rib is prepared like asparagus. Seed planted early in the spring will quickly produce plants from which leaves may be cut all summer. New shoots continually spring up and make a fast growth, while those plants which are allowed to grow on without any cutting will make large curly leaves, with thick, light-colored mid-ribs, which are delicious when stripped, cooked and served like asparagus. You should not fail to plant at least one long row in your garden.

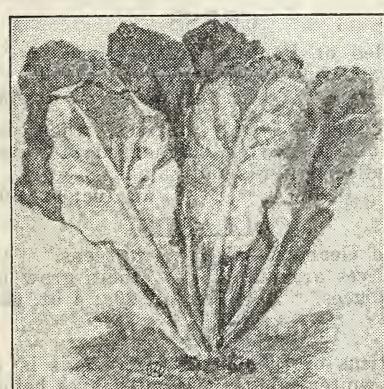
Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.00

## BRUSSELS SPROUTS

The plants, which are very hardy, grow two or three feet high, and produce, from the sides of the stalks, numerous little sprouts or small round heads. Grow and set out same as cabbage or kale,  $2\frac{1}{2}$  to 3 feet apart.

**PERFECTION OR DALKEITH.**—Plants are of dwarf growth and stems are thickly set with large, solid sprouts. This variety is satisfactory. Pkt. 10c; oz. 30c; 4 oz. 85c

**CHIVES.**—See Vegetable Roots, page 35.



Swiss Chard or Spinach Beet

**OUR GARDEN CULTIVATORS** are priced very low and will save you much work in the garden. See pages 110 to 114.

# "Highest Quality" CAULIFLOWER "Plants, Pg. 35"

## ROUTLEDGE "SNOW WHITE"

### The Finest Cauliflower Grown

In competition with all other strains, this cauliflower has won the approval of critical gardeners, being early and also the best main crop sort grown. It is suitable not only for early use, but is superior for late planting. The heads are large, compact, firm and solid. No other variety surpasses it in purity of color being clear snow white, of high quality. It is equally desirable for family use and for the market garden. Very resisting against unfavorable seasons and dry weather, the foliage giving a splendid protection.

Pkt. 20c;  $\frac{1}{4}$  oz. 90c;  
 $\frac{1}{2}$ -oz. \$1.60; oz. \$3.00.



Routledge Snow White.—Leaves cut out to show the head

## EARLY SNOWBALL

We have an extra selected stock of this sort, and recommend it with the greatest confidence. Its earliness, compact habit, large-sized heads and snow-white color recommend it to every grower as a variety of especial merit.

Pkt. 15c;  $\frac{1}{4}$ -oz. 60c; oz. \$2.00; 4 oz. \$6.50

**GILT EDGE** (Snowball).—This strain is in much demand by market gardeners. Heads large, solid and pure white and of finest quality. Good for early or late.

Pkt. 20c;  $\frac{1}{2}$ -oz. \$1.50; oz. \$2.75; 4 oz. \$8.50

**VEITCH'S AUTUMN GIANT** (Italian Type).—A hardy, tall-growing cauliflower, making extra large, white heads, which are well protected by the leaves. Remarkably vigorous and thrifty. Excellent for late crop.

Pkt. 15c;  $\frac{1}{2}$ -oz. 65c; oz. \$1.00; 4 oz. \$3.25

## CHICORY

**Large Rooted or Coffee.**—Grown quite extensively for the large, thick roots, which are sliced, dried, roasted and ground as a substitute or adulteration for coffee.

Pkt. 10c; oz. 40c; 4 oz. \$1.25

**"SEMESAN."**—According to "tests" it pays to use "Semesan" on Cauliflower seed. See page 36.

## OUR MOTTO is "Highest Quality"

It's quality FIRST, then price as low as possible. The best seeds are the cheapest in the end, even though they cost a little more.

## CHERVIL

**Curled.**—An aromatic herb, resembling parsley, and used for flavoring in soups and salads. Fine for garnishing.

Pkt. 10c; oz. 30c; 4 oz. \$1.00

## CRESS

**Curled or Pepper Grass.**—Used as a salad and fine for garnishing.

Pkt. 10c; oz. 20c; 4 oz. 40c

**True Water.**—Only thrives when its roots and stems are submerged in water and delicious for small salads.

Pkt. 10c; oz. 60c

## COLLARDS

**True Georgia.**—Used as "greens." As the leaves are pulled off, others grow in their places. Pkt. 10c; oz. 20c; 4 oz. 65c

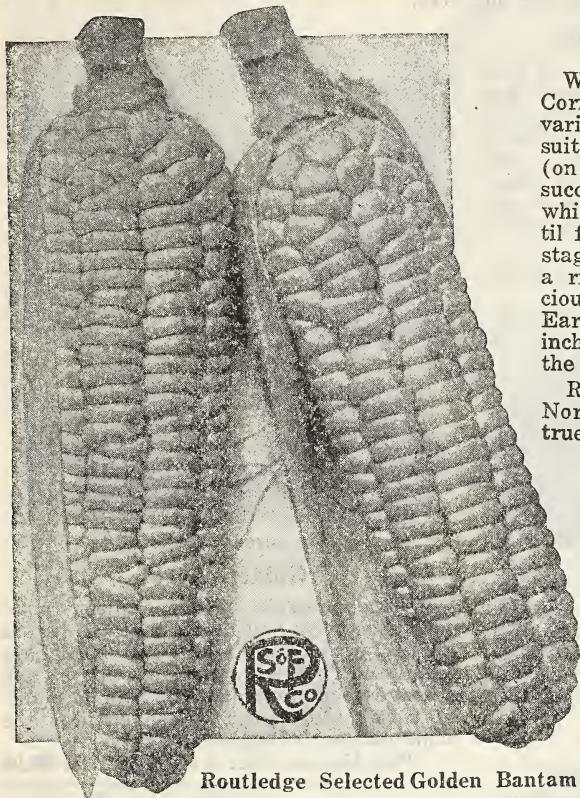
## CORN SALAD

**Fetticus or Lamb's Lettuce.**—This is a hardy winter salad, the small leaves being served like lettuce.

Pkt. 10c; oz. 30c

## SELECTED SWEET CORN — NORTHERN GROWN

PRICES.—Unless otherwise priced all Sweet Corn at 10c pkt, 20c  $\frac{1}{2}$ -lb.; 35c lb. postpaid. 10 lbs., \$2.50, postage extra.



Routledge Selected Golden Bantam

### Routledge Superb

We do not hesitate to recommend this new sweet corn to our customers. Its earliness, hardiness, size and quality make it of real merit to the Western planters. It is extremely early, almost two weeks ahead of Golden Bantam. The large ears are always well filled with 12 to 14 rows of large, plump, white, sweet grains. Of handsome appearance and excellent quality.

### EARLY EVERGREEN

This fine variety is 10 to 12 days earlier than Stowell's Evergreen and yields large, handsome 10 to 12-rowed ears.

### POP CORN

White Rice.—Most popular and profitable kind; short ears, white, pointed kernels.

Large pkt. 10c; lb. 35c

Routledge Seed & Floral Co.

Dear Sirs: I received the Routledge Superb sweet corn seed o. k. and it is the best sweet corn I ever raised. My mother sent me seed from Oregon and I have raised it three years and get roasting ears two weeks before the Early June or Golden Bantam is ready. Thanks very much.

### Routledge Selected Golden Bantam

Without exception Golden Bantam Corn is the richest in flavor of all varieties. It matures quickly and is suitable not only for early planting (on account of its hardiness), but a succession of sowings may be made which will give continuous supply until fall. When picked at the proper stage of its growth the kernels are a rich, creamy-yellow, tender, delicious, and unsurpassed in quality. Ears 8 to 10-rowed, and about six inches long—just the ideal size for the table.

Remember, our selected strain is Northern grown, better flavored and truer than most seed offered.

### Golden Early Market

A recent introduction. On account of its extreme earliness (almost two weeks ahead of Golden Bantam), it brings fancy prices. The ears are large and quality equal or superior to any other of the real early white varieties. A tall, strong grower. Very desirable on account of its earliness.

### Golden Giant

Large golden yellow, of real merit. An excellent variety to follow Golden Bantam, about 10 days later. The ears are 7 to 9 inches in length with 12 to 14 rows of large deep kernels. Excellent quality, sweet and delicious.

### GOLDEN WEST

Rich, creamy yellow and of excellent quality.

### GOLDEN EVERGREEN

Large ears of deep, rich, golden-yellow kernels, very tender and of delicious quality.

### STOWELL'S EVERGREEN

A good main crop or late sort. Remains longer in green state than any other. Very large ears, with deep grains and remarkably sweet.

Bowbells, N. D., March 16, 1929

Dear Sirs: I received the Routledge Superb sweet corn seed o. k. and it is the best sweet corn I ever raised. My mother sent me seed from Oregon and I have raised it three years and get roasting ears two weeks before the Early June or Golden Bantam is ready. Thanks very much.

MARY L. COREY.

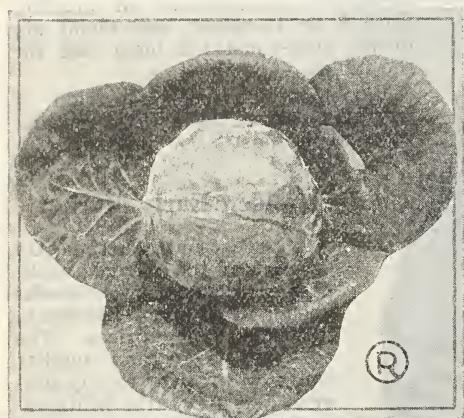
**"Highest Quality"****CABBAGE****True and Pure**

Our Cabbage Seeds come from the world's best growers—pure, true strains, of highest quality. One ounce will produce over 3,000 plants. One-quarter pound of seed will produce plants sufficient for one acre.

**Early Jersey Wakefield**

The earliest and hardiest heading of first cabbages. Its exceeding hardiness not only resist cold, but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better. Head conical, very compact, solid and of excellent quality.

Pkt. 10c; oz. 35c; 4 oz. \$1.25; lb. \$3.75

**Golden Acre****Large (Oregon) Wakefield**

A large strain of Jersey Wakefield; heads nearly double in size, not so pointed. Excellent quality; second early.

Pkt. 10c; oz. 30c; 4 oz. 90c; lb. \$3.00

**Early Jersey Wakefield****Golden Acre**

It is claimed to be the earliest round headed cabbage and that it matures before Early Jersey Wakefield. The heads are round and firm with few outer leaves and average about four pounds. Can be planted closer than most. Excellent for the home garden; of highest quality.

Pkt. 15c; oz. 60c; 4 oz. \$1.75; lb. \$6.00

Ore., Oct. 29, 1928.

Routledge Seed & Floral Co.

Gentlemen: I sent for thirty some odd dollars worth of garden and flower seed which gave the finest results of any seed company's seed I have ever planted.

Yours respectfully,  
WM. F. SCHLIEF.

**Copenhagen Market**

The earliest large round-headed cabbage yet introduced. Sure to head and every head perfect. The plant is of vigorous habit but compact, with short stem and few outer leaves. Heads round, very solid and of exceptionally good quality. Copenhagen Market one of our most valuable varieties. We recommend it.

Pkt. 10c; oz. 35c; 4 oz. \$1.25;  
lb. \$3.75.

**CABBAGE PLANTS.**—During planting season we aim to have on hand large quantities of Cabbage and Vegetable Plants... (See page 35.)

**CABBAGE — Continued — Late Varieties****Premium Late Flat Dutch**

A low growing variety; heads large, bluish-green; round, solid, broad and flat on top; an excellent fall and winter variety and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads. High quality, sweet and mild.

Pkt. 10c; oz. 35c; 4 oz. \$1.25; lb. \$3.75.

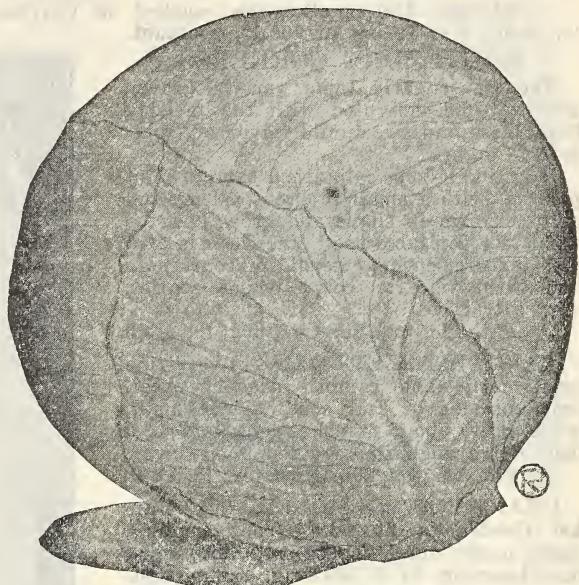
**Perfection Drumhead****Savoy Cabbage**

A variety that is much prized for its exceptionally fine flavor, more tender and sweeter. Heads large size and quite compact, with densely and uniformly crimped or curly outer leaves. Pkt. 10c; oz. 35c; 4 oz. \$1.25; lb. \$3.75.

**Mammoth Rock Red**

Best hard-headed, red variety; large heads, globular, and deep red. Tender and excellent quality.

Pkt. 10c; oz. 35c; 4 oz. \$1.25.

**Danish Ball Head Cabbage****Danish Round Head****An earlier short-stemmed strain of the famous Danish Ball Head**

Large and very solid round head on short stems, having the same keeping quality as the original strain of Danish Ball Head, so widely known. It is 10 days to 2 weeks earlier and is a wonderful yielder. It is especially valuable for high, dry land.

Pkt. 10c; oz. 35c; 4 oz. \$1.25; lb. \$3.75

**Danish Ball Head — True, Highest Quality Seed**

Most remarkable late cabbage yet produced, heads large and solid—fine grained and tender. Entirely distinct. Exceedingly hardy in resisting cold and wet weather. We offer true, pure seed of the very finest medium tall or "middle-stem" type. Famous for its hard-heading qualities, which at once recommends it as highly valuable for shipping. The magnificent heads are round in form and keep in excellent condition during winter, coming out in the spring perfectly solid.

Pkt. 10c; oz. 35c; 4 oz. \$1.25; lb. \$3.75

*Wash., Jan. 21, 1929.*

*Routledge Seed & Floral Co.*

*Portland, Oregon*

*Gentlemen: Have used your seed for several years and find them satisfactory.*

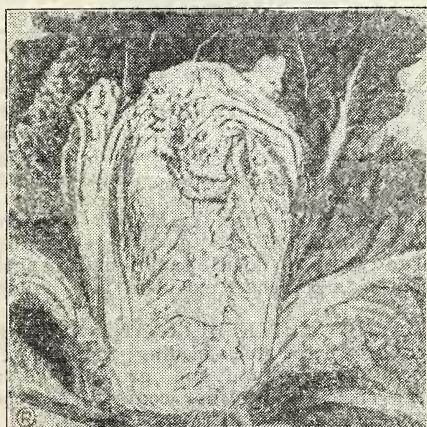
*FRANK SCHERF.*

**Wong Bok  
Chinese Cabbage**

Wong Bok produces a beautiful, crisp, blanched tall or long head, resembling a giant Cos Lettuce. As a salad it rivals the finest lettuce. Delicious sliced as cold slaw. Boiled or steamed it makes delightful greens, more like sprouts. Don't plant too early, grow it as a fall vegetable.

Plant like late cabbage, about 15 inches apart, in rows. Does its best in cool, moist weather. Will last until freezing weather.

Pkt. 10c; oz. 35c; 4 oz. \$1.25

**Wong Bok Salad Cabbage**

## CARROTS

PRICES.—Unless otherwise marked all Carrots: Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.00; 5 to 10 lbs. at 90c lb, postpaid.

### ROUTLEDGE CORELESS

The finest early table variety grown. You will be delighted with the melting tenderness and sweet, mild flavor of Routledge Coreless.

It is a half-long cylindrical carrot, blunt pointed, with a small tap root. They run very uniform in shape and grow just the right size for table use. The flesh is of a fine texture, entirely devoid of coarseness and woody heart; color orange-scarlet, very attractive.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.50

**EARLY SCARLET HORN.**—A very-fine extra early table carrot. Also an excellent summer or fall sort. Tops small, roots grow about 3 inches long and of a deep rich orange, fine grained, good flavor.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

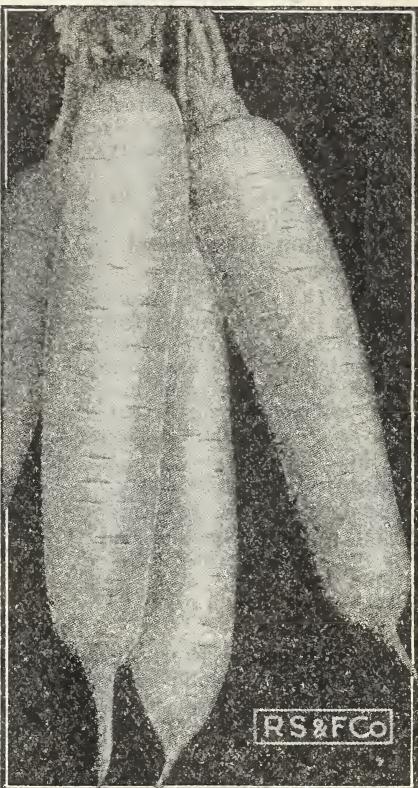
**CHANTENAY or MODEL.**—The Market Gardener's Favorite.—Tops medium sized, necks small, top of root quite thick and tapering to a uniform stump root, smooth; color deep orange-red; flesh very crisp and tender; medium early; a heavy cropper 6 to 7 inches long.

Wash., May, 1929.

Routledge Seed & Floral Co.

Dear Sir: I raised carrots from your Routledge Coreless seed last year and will say they were the sweetest and most tender carrot I ever raised.

H. ALBRIGHT.



Routledge Coreless



Chantenay

**DANVER'S HALF LONG.**—A great favorite, big cropper, medium size, tapering uniformly to a blunt point and of a rich, dark orange; fine for table. On account of its productiveness it is a profitable variety to grow for stock feeding.

Routledge Stock Carrot  
(See top next page)

**LONG ORANGE IMPROVED.**—The best of the long carrots, fine quality, color bright orange, with long, smooth, tapering roots, requiring a deep soil. Excellent for stock.

**GUERANDE, or OXHEART.**—Bright orange, broad at the top and terminates abruptly in a small tap root. Length about 4 to 5 inches; excellent for shallow soils.

**LARGE WHITE BELGIAN.**—Extensively grown for stock feeding; roots white; green above ground and growing to a large size; flesh rather coarse. A good cropper. (See Carrot prices above).

**CARROTS — Continued****Routledge Mammoth Stock Carrot**

The heaviest cropping carrot grown, yielding more tons to the acre than any other sort. The flesh is yellowish-white, crisp and solid, and very sweet in flavor. It is a vast improvement on the Belgian sorts, which have been favorites in the past, as it is not only much more productive, but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. Too much can scarcely be said of their size and great productiveness.

Large pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25; 2 lbs., enough for one acre, \$2.00.

Ore.

*Routledge Seed & Floral Co.*

Gentlemen: I hope you have the Giant Carrot Seed for I raised five pounders of this variety in Newport, Ore.

S. REICHEN.

**Routledge Mammoth****CELERIAC**

**Turnip Rooted Celery.**—The roots, which are the edible portion, keep well for winter use and are excellent for soups and stews.

**LARGE ERFURT.**—An improved form, producing large, smooth roots, which are nearly round. Pkt. 10c; oz. 25c; 4 oz. 75c

**Golden Plume**

**Highest Quality** **CELERY** Celery Plants Page 37

**R. R.'S WHITE PLUME**

A handsome, crisp sort, that bleaches very easily. Early, brittle, delicious and fine flavored.

Pkt. 10c; oz. 35c; 4 oz. \$1.00; lb. \$3.50

**PARIS, GOLDEN SELF-BLANCHING**

The finest strain of French grown seed. This splendid variety is without doubt the most popular celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden-yellow, while the heart or vine stalks are deliciously tender, brittle and sweet.

Select quality: Pkt. 15c; 1/4-oz. 40c; oz. \$1.25; 4 oz. \$5.00.

**GOLDEN YELLOW SELF-BLANCHING**

Same variety of celery as above, but is American grown. High quality seed.

Pkt. 10c; oz. 75c; 4 oz. \$2.50

**GOLDEN PLUME.**—A large, medium early celery of superfine quality and appearance. Heavy stalks with full, solid heart of golden yellow, easy to blanch, a good keeper, and always of the crisp, brittle and nutty quality so much desired. Shows a marked resistance to blight.

Pkt. 20c; 1/4-oz. 75c; oz. \$1.75; 4 oz. \$5.00

**GIANT PASCAL**

Excellent for fall or winter use. A large, tall grower of the finest nut flavor. Very broad stalks, blanching very quickly with little banking up; an admirable keeper.

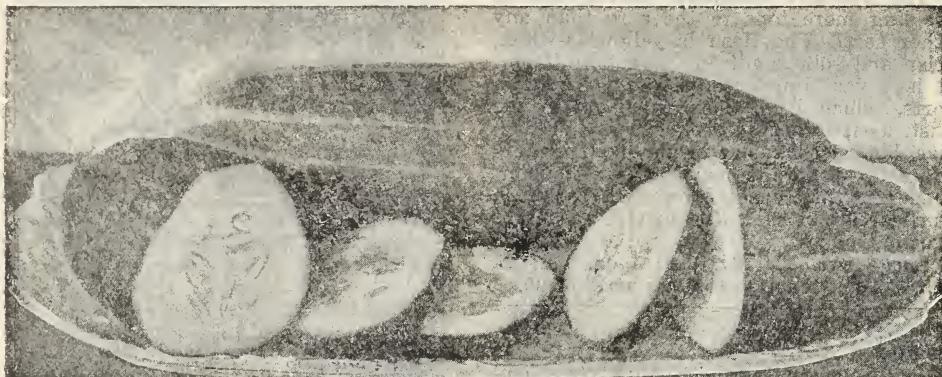
Pkt. 10c; oz. 30c; 4 oz. \$1.00

For complete seed and plant tables, amount to plant, etc., see complete reference tables inside back cover. Always refer to "Index," pages 2 and 3, for anything wanted.

CAREFULLY GROWN  
RE-SELECTED STOCK

## CUCUMBERS

USE BUG DEATH  
FOR CUCUMBER BUGS



Routledge Highest Quality Cucumber

### Routledge Highest Quality

It is the earliest white spine cucumber suitable for table, market or shipping purposes, under all conditions of culture, whether under glass or in the open ground.

Color a very deep green, which it retains during a long period, while in symmetry of form it is so regular, so uniform, as to create comment wherever seen.

The quality is unsurpassed, being exceedingly brittle and crisp. The flavor is delicate and entirely devoid of the bitter taste so frequently noticed in other varieties.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.75

**EARLY FORTUNE.**—Very popular, perfect and regular shape; vigorous and very productive; crisp white flesh.

Pkt. 10c; oz. 25c; 4 oz. 50c; lb. \$1.50

**ARLINGTON WHITE SPINE.**—One of the best sorts for table use. Vines vigorous, fruiting early and abundantly. Fruit uniformly straight, light, bright green in color. Fresh, crisp, tender and of excellent quality.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.35

**IMPROVED LONG GREEN.**—Fruit is from 10 to 12 inches long, dark-green, crisp and tender. Fine for slicing, and when ripe they are the best for sweet pickles.

The leading large variety.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.35

**DAVIS' PERFECT.**—As now selected. the long, even fruits are of fine form, with an intensely dark rich green skin. The solid white flesh is of superb quality for slicing. So handsome and regular that they bring an extra price on the market.

Pkt. 10c. oz. 20c; 4 oz. 45c; lb. \$1.35

**USE "MARVEL".**—So many of our customers tell us of the wonderful results, the increased yield and quick growth obtained by using our Odorless "Marvel" Fertilizer that we again call YOUR attention to it. Remember you can get it by parcel post. See page 37.

**GHERKIN FOR PICKLING.**—A very small, oval, prickly variety, quite distinct from all others.

Pkt. 10c; oz. 25c; 1/4-lb. 75c

**JAPANESE CLIMBING.**—A vigorous grower. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.50

**BOSTON PICKLING.**—A distinct variety, very popular for pickles; color bright green, a great producer and of excellent quality.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.00

**LEMON CUCUMBER.**—Highly recommended by all who have tried it for slicing and salads. Resembles a lemon both in size, form and color. Has a distinctive and delicious flavor superior to and not found in any other cucumber. A variety of real merit for the home garden—try it.

Pkt. 10c; oz. 25c; 4 oz. 60c

### EGGPLANT

**BLACK BEAUTY.**—The earliest and best variety for Oregon. Oval shaped, deep purple, large size, and fine flavor. Culture same as for tomatoes.

Pkt. 10c; 1/2-oz. 40c; oz. 75c; 4 oz. \$2.25

### ENDIVE

This plant furnishes an attractive and appetizing salad for the fall and winter months.

**GREEN CURLED.**—Leaves beautifully curled, dark-green, tender and crisp.

Pkt. 10c; oz. 20c; 4 oz. 50c

**WHITE CURLED.**—Very tender and light green, blanches easily, very ornamental.

Pkt. 10c; oz. 20c; 4 oz. 50c

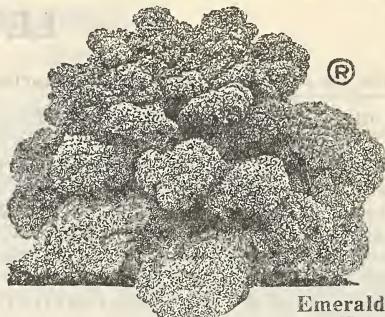
**"Routledge Favorite"****"Some Beets"**

Oregon, April 24, 1929.

Routledge Seed & Floral Co.  
Portland, Oregon

Gentlemen: Have been wonderfully satisfied with all plants and seed purchased from you.

The sample beets you sent yielded earlier and were the smoothest skinned we have ever raised.

Yours sincerely,  
RAE A. ERICKSON.Emerald  
Isle Kale**KALE, OR BORECOLE**

Culture for Kale is the same as for cabbage. With the tall varieties it is customary to pull off the lower leaves and let the plant grow on to furnish a continuous supply. The sweetness and flavor of these greens are improved by frost or light freeze.

**DWARF GREEN CURLED.**—Long plume-like leaves with edges finely cut, tender and of fine flavor.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

**TALL GREEN CURLED.**—Grows about 2 feet high; leaves dark-green; curled and wrinkled; fine quality.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

**EMERALD ISLE.**—Of medium height, leaves attractive, closely curled and of fine flavor. Finest garden variety; very productive.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.75

**COW KALE or THOUSAND HEADED**  
Pkt. 5c; oz. 15c. See Field Seeds, page 44.

**KOHL-RABI**

A delicious vegetable. In growth this is half way between cabbage and turnip; the edible portion is the large bulb which forms on the stem above the soil. Highly esteemed for their mild, delicate, cabbage-like flavor. Slice and boil, discarding the hard lower part of bulb. Sow in drills or raise and transplant like cabbage, 6 to 10 inches apart.

**EARLY WHITE VIENNA.**—Extremely early, medium size, excellent quality.

Pkt. 10c; oz. 25c; 4 oz. 85c

**GARLIC**

Separate the sets and plant them in drills eight inches apart and four to six inches apart in the drill, covering two inches deep. Cultivate like onion sets. When the leaves turn yellow, pull up the bulbs and dry in the shade.

8 oz. 30c; lb. 50c, postpaid

Write for quantity price. Requires about 250 lbs. sets per acre.

**LEEK**

A species of onion which does not form a bulb, but is used for its mild and delicious root, stem or neck.

**"Marvel Q. A." Odorless Fertilizer**

Use a teaspoonful of "Q. A." around each large plant, and you will have the best vegetables you ever raised. It's the richest, greatest fertilizer ever prepared for vegetable and flower gardens. It's pure fertilizer, 100 per cent soluble. No filler. Cheapest fertilizer to buy and it's odorless. See page 37.

**AMERICAN FLAG.**—Mild and sweet; long, large stems; hardy and of the finest quality. The favorite variety of Leek.

Pkt. 10c; oz. 30c; 4 oz. 75c

**MUSHROOM SPAWN****LAMBERT'S PURE CULTURE SPAWN**

**MUSHROOM CULTURE.**—We have instructive leaflets on Mushroom Culture. Free with an order of one or more bricks. Lambert's Pure Culture Spawn is far superior to the old-style varieties, and much better results can be obtained from its use. The bricks should be broken into pieces about two inches square and planted from 10 inches to a foot apart. Bricks weigh from 18 to 20 ounces. A brick will spawn 10 square feet of bed. With Lambert's Pure Culture Spawn it is impossible to raise poisonous mushrooms.

**DIRECT SPAWN.**—Latest and best. Mammoth White, Cream White or Bohemian Brown.

Price, per brick, not prepaid, 35c; 10 bricks, \$3.00; add postage at rate of 1 1/2 lbs. per brick. Write for quantity price.

**MUSTARD**

The leaves of mustard make excellent greens of sharp, pungent flavor, and are cooked the same as spinach or beet leaves.

**SOUTHERN GIANT CURLED.**—Large variety, forming a great mass of beautiful leaves, which are ruffled and finely curled on the edges; hardy, vigorous, highly recommended.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 90c

**WHITE ENGLISH.**—Light-green variety; tender leaves; seed light-yellow.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 90c

## LETTUCE

PRICES.—Unless otherwise marked:

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50.

**GRAND RAPIDS.**—Very popular with private gardeners and as a lettuce for greenhouse forcing. Of quick growth and stands for some days after being fit to cut. The plant is upright, and forms a cluster of large bright-green leaves, finely crimped and ruffled; good flavor, crisp and tender.

**EARLY PRIZE HEAD.**—A large clustering, non-heading lettuce, excellent for the home garden and undoubtedly the most easily grown variety in cultivation. The leaves are finely curled and crumpled, are bright green tinged with brownish-red, very crisp, tender and sweet.

**BIG BOSTON IMPROVED.**—For fall sowing, very hardy and vigorous, leaves comparatively smooth, wavy at edges, thin, very firm and crisp; color bright light-green, slightly tinged with reddish-brown. It usually heads up under cold weather conditions better than any other variety.

**SIMPSON'S EARLY CURLLED.**—A very extensively used early loose-leaved, or clustering variety. Leaves light-green, slightly frilled, crisp, sweet and tender.



Grand Rapids

**EARLY WHITE COS. "Salad Romaine" or Celery Lettuce.**—Heads tall and circular. As a salad lettuce it is highly esteemed for its fresh crispness and sweet, mild flavor.

**HANSON.**—Improved Hard Heading Stock.—A very popular head lettuce. We can recommend this as one of the very best. Heads green outside and white inside; grow to a remarkable size; very solid, and is deliciously sweet, crisp and tender.

### R. R.'S WONDERFUL

Our grower has given this stock special attention and it is a wonderful strain. It produces immense heads of closely folded ruffled leaves. The heart blanches beautifully and is crisp, tender and delicious. A robust variety, rooting deeply and thus able to resist hot dry weather; a sure header and slow to seed. The outer color is of a distinct apple-green. A rapid grower and unsurpassed as a home or market lettuce. When you transplant, set plants 18 inches apart in the rows.

Two-year Seed: Pkt. 15c; 1/2-oz. 20c; oz. 35c; 4 oz. \$1.00; lb. \$3.50.

### Use End-O-Pest

The guaranteed slug and snail and pest destroyer. No use of having your garden plants ruined by the "pesky" slugs. Read about End-O-Pest on page 109.



R. R.'s Wonderful (Photo of 1/2 head.)

**HIGHEST QUALITY LETTUCE SEED.**—We pay our grower extra money for selecting seed from extra choice stock. It's worth double common seed generally offered.

## LETTUCE — Continued

## R. R.'s Tender Crisp

A distinct and extra choice variety for those who like curly, crisp, tender Lettuce of the finest quality.

Grows to a large size, makes most desirable heads of pleasing appearance, and retains its crispness and mild flavor to a greater degree than any other crisp-head variety. While especially adapted for midsummer, it is most desirable also for spring and fall. The plants are of quick, strong growth; the leaves are of a soft, bright-green, growing closely around the heads, which become quite solid. The heart blanches to a beautiful silvery white, tender yet mild flavored and unsurpassed.

Pkt. 10c; oz. 30c; 4 oz. 75c; lb. \$2.50

**WAY-A-HEAD EXTRA EARLY.**—The earliest and one of the surest heading; of the very finest quality. The tightly folded heads are of good size. The outer leaves are a light green. Heart blanches to a rich buttery yellow.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$1.75



R. R.'s Tender Crisp Lettuce

**New York Improved**

Improved round head. A large, crisp, curly-leaved, close-heading lettuce of the finest quality. Great favorite in all markets. Carloads of this variety are shipped by market growers and it brings the highest prices.

Pkt. 10c; oz. 25c; 4 oz. 85c; lb. \$2.50  
Two-year seed: Oz. 40c; 4 oz. \$1.00; lb. \$3.50.

**ICEBERG.**—Produces large, firm heads, very tender and brittle. Withstands hot weather better than most sorts.

Pkt. 10c; oz. 25c; 4 oz. 65c; lb. \$2.00.

**CHICKEN LETTUCE**

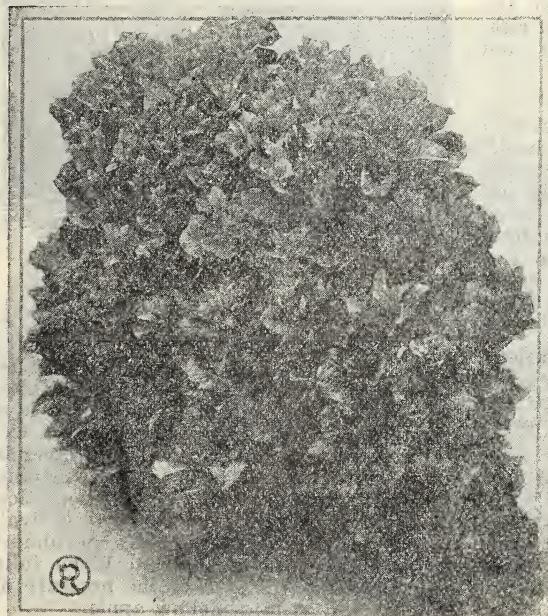
(For Poultry and Rabbits)

Lettuce is an excellent food for chickens. It is just the "greens" they require to keep in the best of health. It yields as much or more than other green feeds, for when once cut it starts again or the leaves can be pulled off the lower stems as it does not make a head, but sends up a stout stalk three to four feet high just loaded with leaves. For large size do not crowd it. Transplant from the crowded rows.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.35.

Chicken Lettuce (2 Plants)

"END-O-PEST".—Keep the slugs away from your lettuce and other plants by using "End-O-Pest"—GUARANTEED. See page 109.



## MUSKMELON

PRICES.—Your choice of following kinds: Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50.

### POLLOCK 10-25

Considered by many growers to be the finest commercial variety. Very productive, melons of even size, beautifully netted. Very small seed cavity with thick, luscious flesh of a genuine salmon tint, shading to green near the rind. A splendid keeper and shipper.

### NETTED ROCK OR ROCKY FORD

An old favorite and one of the Most Popular and Best Sellers among the Rocky Ford Melons.

The fruit is oval and completely covered with a heavy netting. The flesh very thick; light green, very sweet and delicious and of superb flavor; medium in size, a great favorite.

### EXTRA EARLY HACKENSACK

A great favorite among home growers. Quite early. Of fine, large form, heavily ribbed and netted. Flesh is a beautiful light green, thick, sweet, and of finest flavor. A delicious variety.

### HOODOO

Produces an abundant crop of most delicious melons of convenient size for the table use. Skin thickly netted, flesh rich, deep orange, meaty, fine grained and sweet.

### DELICIOUS GOLD LINED

Growers for home and for market will be delighted with "Delicious Gold Lined," both on account of its desirable size and unsurpassed quality. Very uniform in size and shape, nearly round, thickly covered with grayish netting. The flesh, on light green with a beautiful light golden tint next to the seed cavity. The flavor is delicious, being remarkably sweet and juicy.

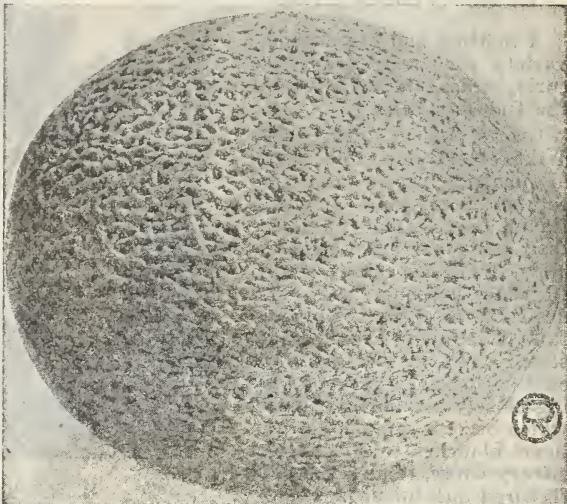
### BURRELL'S GEM

Select Strain.—A good-sized oval variety, well ribbed and covered with a fine grayish netting and having reddish-orange fine grained flesh of fine, spicy flavor, sweet and delicious. Very popular locally.

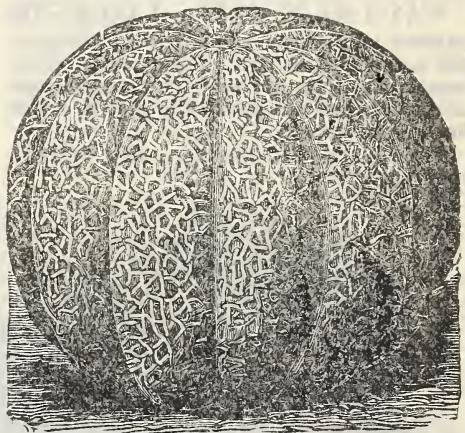
### GOLDEN BEAUTY CASSABA

#### Fall and Winter Muskmelons

Skin wrinkled, flesh thick, excellent flavor and fine aroma. When nearly ripe pick and stow away in a cool, dark place until the rind becomes slightly softened and moist.



Delicious Gold Lined



Extra Early Hackensack

### HONEY DEW

#### A Large Melon of Real Merit

When ready to pick the melons will be of a light creamy yellow, almost white. The rind is very smooth. The flesh is a light green, very thick, fine grained, exceptionally sweet and juicy. The flavor is delicious. Honey Dew is a long keeping melon, remaining in good edible condition for several months. In shape it is oval, oblong, six to seven inches thick and almost round. An excellent shipper. When fully ripe the rind will give to the pressure of your thumb as in a mellow apple.

## WATERMELONS

### Routledge's Oregon Prize An Extra Early Variety

We offer this Melon with the assurance that it is not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown. The flesh is of a deep scarlet. It will ripen in altitudes where it has not been thought possible to mature a good watermelon. If you have been under the impression that you could not grow watermelons in your garden on account of a short season or cool nights, try our Oregon Prize.

Pkt. 10c; oz. 25c; 1/4-lb. 65c; lb. \$2.25

**HALBERT HONEY.**—An early maturing variety suited to the Northern states; vigorous and very productive. Melons 18 to 20 inches long. Skin dark glossy green, flesh beautiful crimson, tender, sweet and delicious.

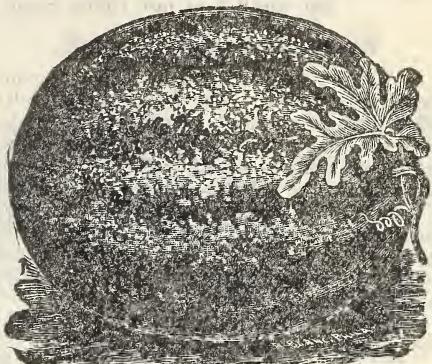
Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

**ICE CREAM (Black Seeded).**—An excellent melon that has become very popular here. Round in shape with a thin ivory-colored skin. Flesh pink, sweet and of fine flavor and quality.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

**CITRON (Red Seeded).**—Flesh white and solid, used exclusively for pickles and preserves.

Pkt. 10c; oz. 25c; 4 oz. 50c



**KLECKLEY'S SWEET.**—Medium early and unsurpassed for near markets. Vine vigorous and productive; fruit of good size, oblong; skin dark, glossy green; flesh is bright scarlet, crisp, sweet, and of excellent quality.

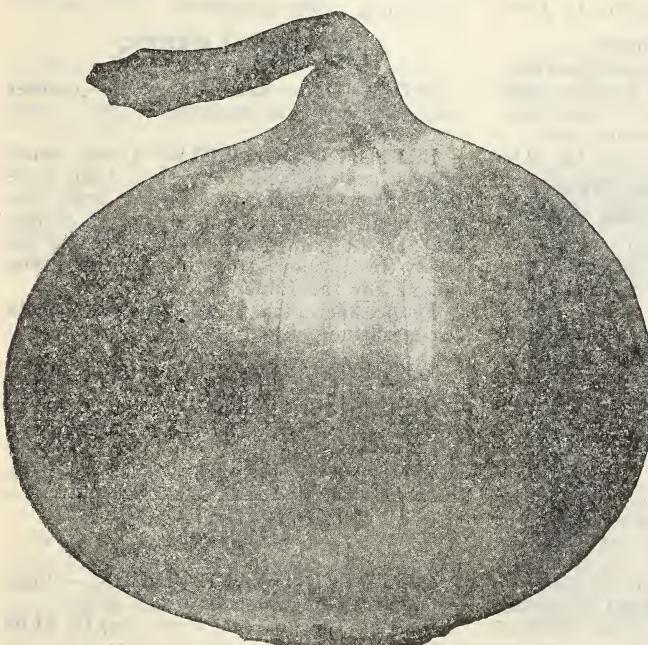
Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.00

**KLONDYKE.**—Of real merit and unsurpassed for home or local market. Rind is dark green. Melon, oblong. Flesh, rich bright red, exceptionally brittle and sweet. Extra early.

Pkt. 10c; oz. 25c; 4 oz. 65c; lb. \$1.75

### True Seeds

### ONION



Oregon Yellow Danvers Onion

### Highest Quality OREGON YELLOW DANVERS

This variety is very extensively planted in the Northwest, particularly in Oregon.

The largest crops of onions and the best keepers, bringing the highest prices on the Pacific Coast and Middle Western markets, are the Oregon Yellow Danvers. The bulbs are uniformly large, a full three-quarters globe shape, with small necks. It matures quite early, is the largest in size, most perfect in shape, the largest crop per and one of the best keepers, and as a market or table onion cannot be excelled.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50.

## ONION — Continued

The quality of our Onion Seed is unsurpassed. It will please you.

### Riverside Sweet Spanish

A distinct type and of a very superior quality and flavor. The flesh is unusually mild, pure white and sweet. They make handsome looking onions. A fine shipper and good keepers, quick sellers. The onions will range in size from 3 to 5 inches in diameter if given good soil, cultivation and ample room. The size can be easily regulated by the space between the onions. For the largest size they should be thinned to 6 to 7 inches apart.

An ideal globe-shaped onion with a light yellow skin.

Pkt. 10c; oz. 50c; 4 oz. \$1.50; lb. \$4.00

### LARGE RED WETHERSFIELD

The standard variety of the red onions. Of large size and rather flat, a heavy yielder, and one of the best for keeping. This onion will produce a better crop on poor or upland soil than most varieties.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$2.25

### PRIZE TAKER

This onion has become a great favorite on account of its large size and great solidity. It is perfectly globe-shaped, with straw-colored skin; the necks are very small and the onions always ripen up hard. An excellent keeper, exceedingly fine, mild flavor; very popular.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

### AUSTRALIAN BROWN

An extra early, sure cropping variety, with long keeping qualities. A sweet, mild flavored onion, with crisp, white flesh, covered with a bright reddish-brown skin.

Pkt. 10c; oz. 20c; 4 oz. 65c; lb. \$2.00

### YELLOW GLOBE DANVER

Discarded for Oregon Yellow Danver. See page 28.

### SOUTHPORT WHITE GLOBE

An enormous yielder and superb keeper; perfect globe-shaped, very large, clear white skin and considered one of the handsomest varieties grown. Planted extensively by gardeners for both dry use and green onions. Mild and sweet. The best white onion.

Pkt. 10c; oz. 35c; 4 oz. 90c; lb. \$2.75

### WHITE PORTUGAL OR SILVERSKIN

The finest flavored of all the white-skinned onions. Quite early, half-globe shaped, a fine cropper; very firm and an excellent keeper. Excellent for bunching green, or for pickling, if grown close so as to hold the size down. A good all-around sort. Pkt. 10c; oz. 35c; 4 oz. 90c; lb. \$2.75

Treat Your Onion Seed With "SEME-SAN." Means Dollars to You—See Page 36 and Ask for Special Leaflet.



### MARVEL, Q. A. FOR ONIONS

Remember. A 25-lb. bag of Marvel Q. A. is equal in plant food to 100 lbs. of most any other commercial fertilizer on the market. A complete and balanced food; very rich and strong, therefore must be used with caution. A wonderful fertilizer for onions. (See page 37.)

## ONION SETS

NOTE.—Onion sets subject to market changes; write for quantity price.

**BOTTOM ONION SETS.**—These small onions are grown from seed that have been sown too thick to attain a large size. The small onions (about  $\frac{1}{2}$ -inch in diameter), thus obtained are planted out and are ready in a short time to pull as green onions for the table.

Per lb. 25c; 5 lbs. \$1.00, postpaid. Write for quantity prices.

**TOP SETS,** lb. 40c; not postpaid, 30c.

**SHALLOTS.**—Valuable for bunching or for an early crop. Each bulb makes from 3 to 5 green onions.

Per lb. 35c; 4 lbs. \$1.25; prepaid.

## OKRA

**IMPROVED DWARF GREEN.**—Very productive; long, slender green pods.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.00

"H. Q." AND "MARVEL" FERTILIZERS, MIXED ABOUT 25 LBS. OF "MARVEL" AND 3 SACKS "H. Q." WILL GIVE GARDENERS GREAT RESULTS. SEE PAGES 37-38.

**"Highest Quality" POTATOES****True and Pure**

We offer a few varieties of special merit that we recommend.

WRITE, WHEN READY TO BUY, AND STATE AMOUNT WANTED  
PRICES.—Small lots: 5 lbs. 40c; 10 lbs. 75c; Postage Extra.**"EARLIEST OF ALL"**

Its quick growth and early maturity combined with its excellent cooking qualities, makes it very valuable. Plant early to obtain large size. Ready for the table nine weeks from planting, and fully matured in twelve weeks.

"Earliest of All" is a healthy, vigorous grower, does not make a second growth. Keeps as well as any late potato. A handsome, shallow-eyed, round, flattened, white skinned potato of the finest quality.

**BLISS TRIUMPH**

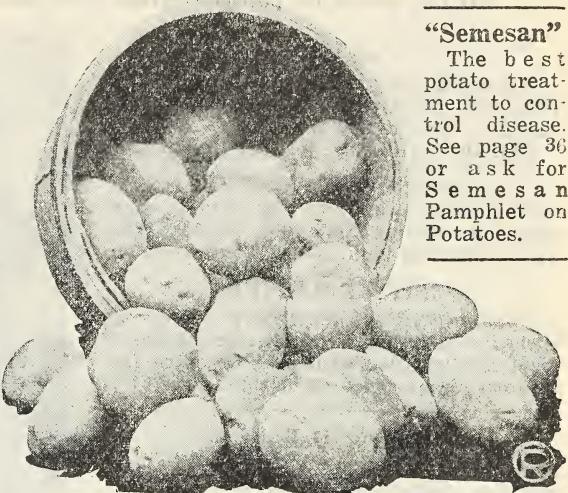
Extra Early

One of the best extremely early potatoes. Very hardy, vines stocky and compact and can be planted closer than late sorts. Tubers almost round, very smooth, pink skin, few eyes. Quality and flavor excellent. The heaviest yielder of the extra early varieties.

A very popular and standard extra early potato of the south and it's the variety that comes into our northern markets so early in the season. Give it a trial, you'll like its yield and fine cooking quality. Stock limited, order early.

**EARLY ROSE**

It's hard to beat the Early Rose if the stock is clean and pure. We offer the best hand selected stock obtainable.



Earliest of All

**IMPROVED BURBANK**

The standard and most popular commercial variety. We offer improved re-selected, healthy stock.

**NETTED GEM**

Also known as "Russet Burbank," "Yakima Gem," etc. A splendid main-crop variety. We offer healthy, heavy producing stock.

**PARSNIP**

Highly appreciated for table use. Plant same as carrots and thin out to 3 to 4 inches apart. Parsnips make a very rich food for stock.

**GUERNSEY**

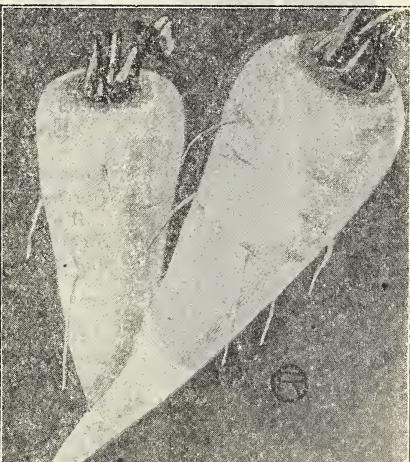
The roots are medium long, with a broad shoulder, gradually tapering downward. The white skin is smooth and attractive. Guernsey is not so long, easier dug and very productive. The fine-grained, tender, and sweet flesh makes it essentially a table variety, but it is also grown for stock-feeding on account of the immense yield.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

**HOLLOW CROWN**

Well known popular variety, with long, tapering roots, very smooth and of the finest quality. Derives its name from a depression at top of crown or root; very fine table sort.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.00



Hollow Crown Parsnips

**MARVEL Q. A.**—A profitable fertilizer for increasing the potato crop; of highest quality, reasonable in price. See page 37.

**"Semesan"**

The best potato treatment to control disease. See page 36 or ask for Semesan Pamphlet on Potatoes.

## "Highest Quality" GARDEN PEAS

There is a vast difference in "strains" of garden peas. You will find our stock "very superior," healthy, vigorous and true, much better than the average seed sold by wholesale seed dealers and jobbers. Plant our stock if you want "Highest Quality."

All Pea prices are postpaid except 10-lb. lots. Write for quantity price.

### ALASKA

An extra early, exceedingly hardy pea. Pods well filled with smooth peas of good quality. Height 2½ feet.

Pkt. 10c; ½-lb. 20c; lb. 35c; 10 lbs. \$2.50

### AMERICAN WONDER

Well known and very popular; extra early, productive and good flavor; vines grow 10 inches high. Same prices as above.

### LITTLE MARVEL

Popular variety, very early. Vines 15 inches high; pods dark-green, medium size, closely filled with peas of extra fine flavor. Same price as Alaska.

### Duke's Delight

Oregon, Feb. 14, 1929.

Routledge Seed & Floral Co.

Portland, Oregon

Gentlemen: I used your seed for the first time last year and was very much pleased especially with Duke's Delight and Dwarf Telephone peas.

Yours truly,  
HENRY L. LOONEY.



Duke's Delight

### Duke's Delight

A dwarf, extra early, delicious pea of great merit. Each year increases its popularity.

Our regular customers are now demanding it in preference to all the other early dwarf old standard sorts.

Duke's Delight easily outclasses the old popular kinds in productiveness, size and fullness of pods, and the delicious flavor and quality of the green peas. Sturdy, stocky, healthy vines about 16 inches high.

Large pkt. 15c; ½-lb. 25c; lb. 40c. Not postpaid, 10 lbs. \$3.00; 25 lbs. \$6.25; 50 to 100 lbs., write.

### Each Year Brings More and Better Reports.

Ore., Jan. 21, 1929.

Routledge Seed & Floral Co.,  
Portland, Oregon.

We think your Duke's Delight Peas fine and your Superb Sweet Corn has the Golden Bantam beat a hundred ways and they can't be had at any other store.

Yours truly, C. L. MILLER.

Ore., January 9, 1929.

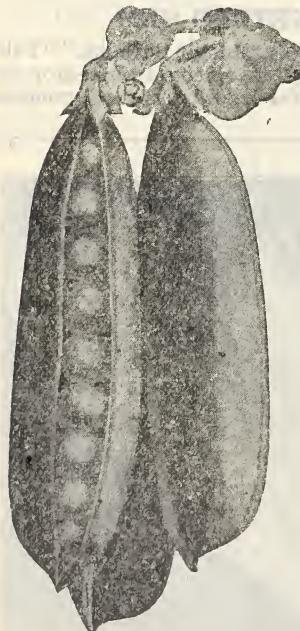
Gentlemen: Have used your seeds for three seasons now with great success.

Your Duke's Delight peas are the sweetest, best flavored pea I've ever tasted. Our garden would not be complete without them.

Yours truly,  
MRS. GUST SCHNEIDAN.

Get the true "Duke's Delight" by ordering direct from us. Take no substitute.

Be sure you read about inoculating pea seed. It increases the yield and improves the soil. (See page 39.) They also claim wonders for crop seeds treated with "Semesan," page 36.



## Highest Quality Garden Peas — Continued

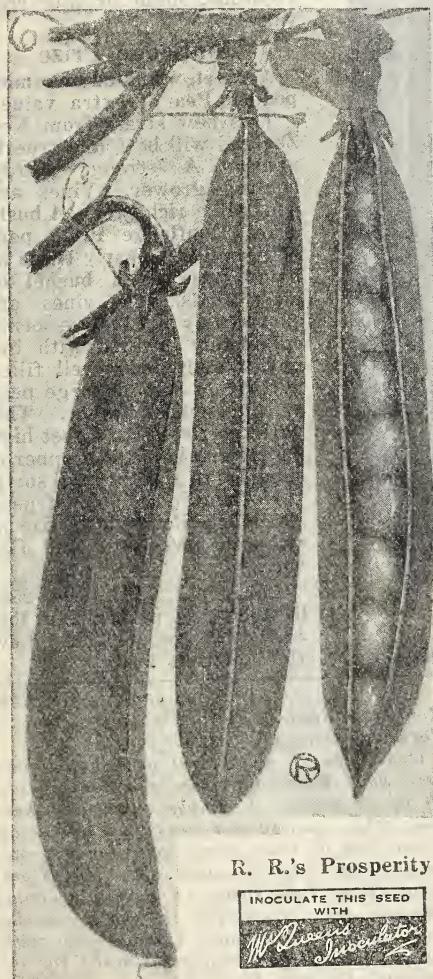
**PEA PRICES.**—Unless otherwise priced, Large Pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 35c, postpaid. Not postpaid, 5 to 10 lbs. @ 25c; 25 lbs. @ 20c. Write for low 100-lb. prices.

### R. R.'S PROSPERITY

The Earliest Large Podded, Sweet Garden Pea to date. Height 3 $\frac{1}{2}$  to 4 feet; only a few days later than the earliest dwarf sorts.

The pods are very large, and are well filled with from 8 to 10 sweet, large, tender peas of delicious flavor and quality.

Its heavy yield and excellent keeping quality makes it a most profitable market variety.



See page 39

### LAXTONIAN OR BLUE BANTAM

Unsurpassed among the "first early" large podded peas, of superb quality. The dwarf, sturdy stocky vines average 15 inches in height and yield an enormous crop of large, dark-green pods that average 4 $\frac{1}{2}$  inches long and are tightly packed with large, deep green peas of most delicious flavor and quality. We know you will like Laxtonian.

### DWARF TELEPHONE

A splendid mid-season variety, growing about 2 feet tall, vines very sturdy and bear a good crop of large, long pods, containing 7 to 9 large peas which are tender and sweet. A popular sort.

### GRADUS

Extra early. This popular large-podded, wrinkled pea of finest quality matures pods only two or three days later than the small-podded extra earlies. Vines four feet high. It produces uniformly large, long pods, nearly round, and well filled with very large, handsome peas of the finest flavor. Very popular with market gardeners.

### IMPROVED STRATAGEM

A very productive, vigorous, semi-dwarf variety with large, dark-green pods, always well filled. In quality it is unsurpassed. Vines 2 $\frac{1}{2}$  feet.

### ROUTLEDGE PRIZE PEAS

MANY OF OUR PATRONS WRITE ABOUT AS FOLLOWS:

"Gentlemen: I have tried many varieties of garden Peas purchased from many seed companies, but I have never seen a main crop pea that could come anywhere near being as good as Routledge Prize."

SEE NEXT PAGE

### EDIBLE PODDED OR SUGAR PEAS

A great favorite with many. In the Edible Podded or Sugar Peas the pods are broken and cooked like snap-beans when the peas start to develop in the pod or have reached about half their full size.

**DWARF SUGAR.**—Two feet in height, producing a heavy crop of small, flat pods about 3 inches in length.

**MAMMOTH MELTING SUGAR.**—Grows 4 feet tall, producing very large, broad, flattened pods.

Market Gardeners who buy Peas in large quantities should write us for prices, stating variety and amount wanted.

**PEAS—CONTINUED—LARGE PODDED, LATE OR MAIN CROP**  
 For Prices on Peas see top of page 27.

**Telephone**

One of the most popular sort for main crop. Vines attain a height of  $4\frac{1}{2}$  feet, bearing profusely the extra long, handsome large pods full of large, tender, sweet peas of superb flavor. We offer a very carefully rogued select strain of unusual merit.

**Alderman**

Excellent market variety. The large, dark green pods, filled with big, sweet flavored peas, bring fancy prices and sell rapidly. Vines tall and vigorous; main or late crop variety.

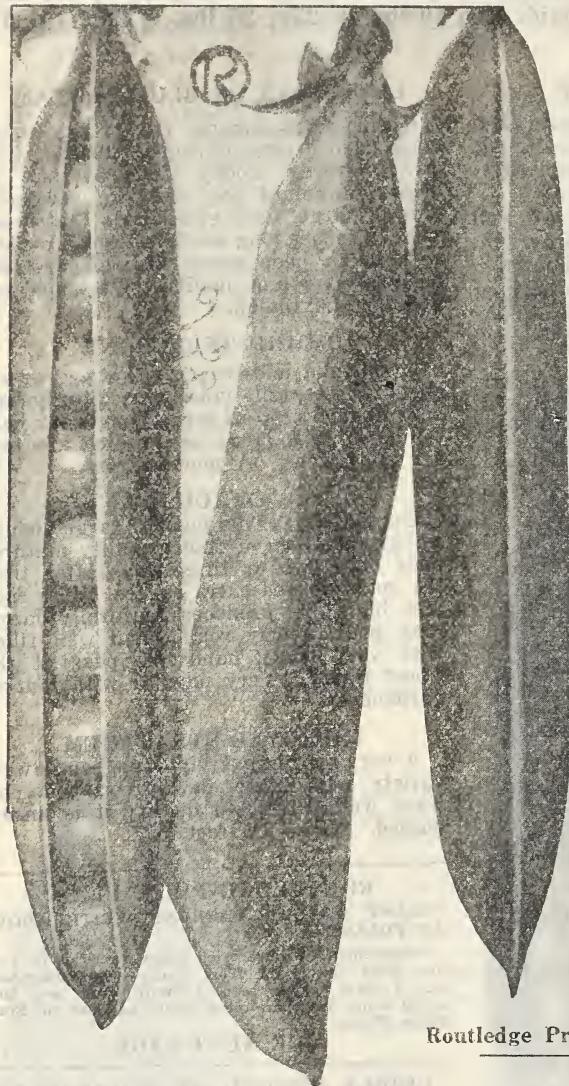
**Routledge Prize**

A sweet, wrinkled mammoth podded Pea of extra value.

This new strain from New Zealand will be found true to name. A strong, sturdy, healthy grower. Vines and pods are a rich green. A bushel of Routledge Prize pods will shell out nearly twice as many peas as a bushel of most kinds. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 11 large peas of the richest flavor. This variety grows 5 to 6 feet high and as an abundant cropper is superior to all other tall sorts.

Nothing in the line of peas excels the Routledge Prize in richness, sweetness and flavor.

Large pkt. 15c;  $\frac{1}{2}$ -lb. 25c; lb. 40c. Not postpaid, 10 lbs. \$3.00; 25 lbs. \$6.25. Low 100-lb. price, write.



Routledge Prize

Oregon, January 18, 1929

Routledge Seed & Floral Co.  
 Portland, Oregon

Gentlemen: I might just add that I have used your Routledge prize pea for the last 10 or 12 years. I simply would not have any other variety for early or late crop. I can lots of them every year for our own use. I can say the same about the Routledge Giant Pole Bean. You simply cannot describe how wonderful they are. Seeing and using is believing. I cannot do without either of those wonderful seeds for our garden. In fact, I will have no other; they fill the bill.

Yours truly,  
 AGNESS HAYDEN.

**PARSLEY**

**CHAMPION MOSS CURLED.**—A very select English strain having dark green moss-like curly leaves.

Pkt. 10c; oz. 20c; 4 oz. 40c

**HAMBURG OR TURNIP ROOTED.**—Grown for the edible roots which are used for flavoring soup and stews.

Pkt. 10c; oz. 20c

It pays to use McQUEEN'S INOCULATOR on all Pea Seed.

## PUMPKIN

DOUBLE THE YIELD AND SIZE OF YOUR PUMPKINS by using a handful of "MARVEL" Fertilizer to each hill, and be sure you mix it well with top soil. (See page 37.)

### Winter Luxury

Extra early, enormously productive, medium size, superior keeping qualities. Golden orange color with heavy netting. Rich, thick, golden flesh; sweet and tender. The best pumpkin for pies.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

**SMALL SUGAR.**—The New England pie pumpkin. Small, bright orange color. Flesh deep yellow, fine quality. Matures early.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

**KING OF MAMMOTHS.**—The largest of all; grow this variety to win the prizes at the fair.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

**CONNECTICUT FIELD.**—Popular for field culture and excellent for stock. Large, orange-yellow.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

**LARGE SWEET CHEESE.**—A very large variety; fruit flattened, yellow when ripe, flesh yellow, very thick, tender; very nutritious and of excellent quality. A heavy yielding variety.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

## PEPPER

Plant seed early in the spring; raise same as for tomatoes. Plants in season.

**LARGE BELL OR BULL NOSE.**—A very prolific variety, producing good sized, mild, thick fleshed fruit. Fine for salad and stuffing. Very popular with all gardeners.

Pkt. 10c; oz. 65c; 4 oz. \$2.00

**CHINESE GIANT.**—The largest of all the bull-nosed varieties, thick meated, very sweet and mild. Excellent for stuffing.

Pkt. 10c; 1/2-oz. 45c; oz. 75c; 4 oz. \$2.50

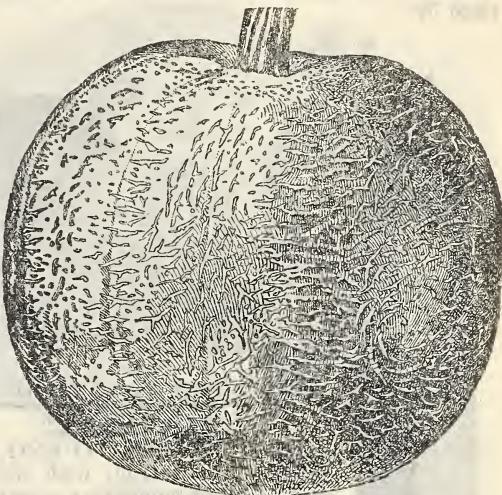
**RUBY KING.**—Fruit extra large and well formed. They ripen ruby scarlet. The flesh is extremely thick, sweet and mild.

Pkt. 10c; 1/2-oz. 35c; oz. 60c

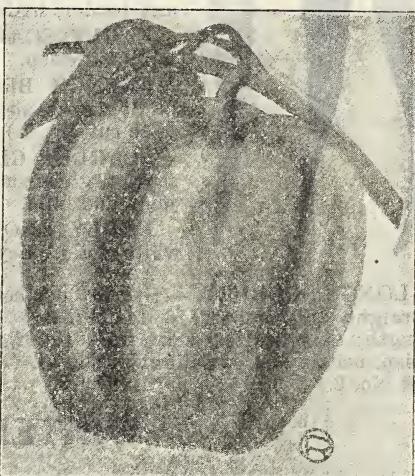
### Burpee's Sunnybrook

The sweetest and most prolific of all Pimento peppers, with smooth green fruit turning to scarlet; 3 inches thick and 2 to 2 1/4 inches deep. The flesh is unusually thick and sweet. Plants tall and broad, laden with clusters of fruits. An ideal sort for stuffing or salads.

Pkt. 15c; 1/2-oz. 50c; oz. 80c



Winter Luxury Pumpkin



Large Bell or Bull Nose Pepper

**PIMENTO (Perfection).**—Fruit bright scarlet, very thick fleshed and very mild and sweet.

Pkt. 10c; 1/2-oz. 35c; oz. 65c

**RED CHILI.**—A small pointed, bright red variety, pungent and hot.

Pkt. 10c; 1/2-oz. 45c; oz. 75c

**CAYENNE.**—Medium long, narrow pointed red pods; very hot and strong.

Pkt. 10c; 1/2-oz. 40c; oz. 65c

DO YOU SEND EAST for your Seeds? It's bad policy. Spend your money on this Coast. Here's where you sell your products. Our seeds are highest quality and priced right.

"Highest  
Quality"

## RADISH

"Highest  
Quality"

For a continuous supply of crisp, tender Radishes, sow seed every week, as they remain in "prime" condition only a few days after attaining full size. Use "H. Q.". page 37.



**PRICES.**—All varieties except Nerima: Pkt. 10c; oz. 20c;  
4 oz. 40c; lb. \$1.00.

**SCARLET TURNIP, WHITE TIPPED.**—A beautiful variety; deep scarlet, with white tip. Very early, crisp and delicious. Very popular as a market sort. (No. 5.)

**SPARKLER.**—Similar to the above but the whole lower half is pure white, upper half bright scarlet. Many prefer it. Crisp and tender, little larger.

**EARLY SCARLET TURNIP.**—Small top; of quick growth; mild and crisp. Very popular.

**FRENCH BREAKFAST.**—Very popular; crisp, tender and mild; grows about 2 inches long, stump rooted, tipped white. (See cut No. 7.)

**SCARLET GIANT ("Crimson Giant").**—The largest early scarlet, globe-shaped radish. Flesh sparkling white, solid, crisp, juicy and mild. (See cut No. 6.)

**EARLY SNOWBALL (Model White Box).**—Early, clear white, solid, juicy, crisp, tender. (See cut No. 4.)

**LONG SCARLET.**—Grows perfectly straight and smooth, 6 to 7 inches in length; skin scarlet, very thin; the flesh crisp, brittle and of delightful flavor. (See cut No. 2.)

**WHITE ICICLE.**—Crisp, tender and mild; retains these qualities until the roots attain large size. It is ready for use almost as quickly as the early turnip-shaped sorts. (See cut No. 3.)

## WINTER RADISHES

For winter and spring use. Sow seed in July and August. Early planting is not advisable. See prices above.

**NERIMA (Japanese Long White).**—A late fall and winter radish. It grows from 12 to 30 inches long and about 2 inches in diameter. Skin white and smooth, flesh firm, crisp, tender and mild.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

**LONG BLACK SPANISH.**—Very popular; latest, as well as the hardiest. Roots of medium size, oblong, black.

**ROUND BLACK SPANISH.**—Three or four inches in diameter; flesh white; good keeper.

**CALIFORNIA MAMMOTH WHITE.**—Also called Chinese White Winter or Celestial. A long, thick, stump-rooted variety. Pure white. The flesh is tender and crisp, keeping well through the winter.

**CHINA ROSE.**—Bright rose color, flesh firm and piquant, largest at the bottom. One of the best in this class.

**DON'T GROW WORM-EATEN RADISHES.** Use "Careo"—New Discovery. See page 107.

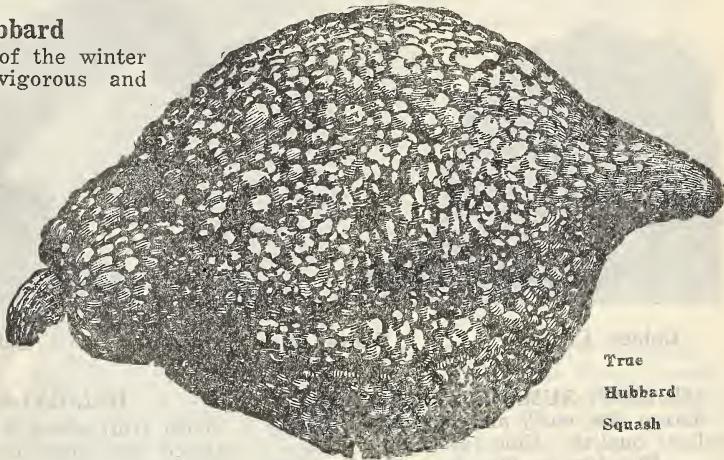
## SQUASH — Fall and Winter

DOUBLE the yield of your squash by using a cupful of "MARVEL" Q. A. Fertilizer well mixed with the soil to each hill. (See page 37.) You know the richer your ground, the larger the yield, and "Marvel" Fertilizer certainly contains more plant food than any other brand.

### True Hubbard

One of the best of the winter squashes. Vines vigorous and very productive. Fruit large, heavy, moderately warted with very hard shell. Skin uniformly dark bronze green. Flesh bright orange-yellow, fine grained, thick, dry and richly flavored. Can be kept in good condition until spring. Our seed is carefully selected.

Pkt. 10c; oz. 20c;  
4 oz. 45c; lb. \$1.35.



True  
Hubbard  
Squash

### GOLDEN HUBBARD

It is a rich golden color and somewhat warted; a long keeper; one of the very best fall and winter sorts yet introduced. Matures early; is vigorous and wonderfully productive. Flavor and quality unsurpassed.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

### IMPROVED BOSTON MARROW

A popular variety for canning; large oval fruit; skin bright reddish-orange; flesh rich orange, fine grained and of excellent quality.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.00

### MAMMOTH CHILI

Grows to an enormous size, often weighing over 200 pounds. Flesh thick, and fine quality. Its size makes it valuable for stock feeding.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

### DANISH—TABLE QUEEN

An ideal table squash, about 7 inches long and 5 inches thick. Very popular and much in demand. Color dark green with a splash of orange red; very productive. Shell hard and smooth and ridged. Cut in half and bake in the shell—try it. Fine grained and finest quality. None better.

Pkt. 10c; oz. 25c; 4 oz. 50c; lb. \$1.60

### ENGLISH VEGETABLE MARROW

Creamy white. A favorite English variety about 12 inches long. Flesh tender, delicious.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

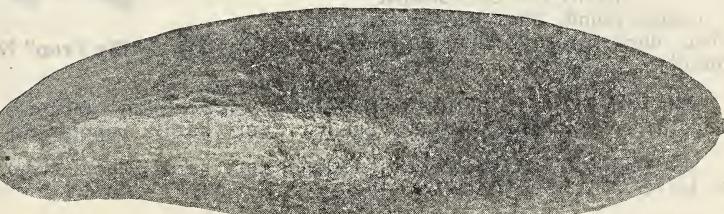


Danish Table Queen

### BANANA SQUASH (See cut)

Grows 1½ to 3 feet in length. The skin varies from dark olive-green to slate color outside. Flesh firm, very thick, finest quality and rich orange. Ready early in the fall and will keep until late spring. A very popular variety.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50



### THE GARDEN GUIDE

and other up-to-date  
and valuable books  
on gardening listed  
on page 115.

## SQUASH — Continued — Summer and Fall



Golden Custard

White Bush Scallop

Golden Crookneck.

### GOLDEN SUMMER CROOKNECK

Large size, early and very prolific. Excellent quality. Fine for summer use.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

### MAMMOTH WHITE BUSH SCALLOP

Large, early, clear, creamy white. Excellent quality fried or stewed. Same prices as above.

### GOLDEN CUSTARD BUSH SCALLOP

An extra early variety of good size and excellent quality, very prolific. Same prices as above.

### DELICATA SQUASH

Oval fruit about 9 inches long, yellow, striped and marbled with olive-green. Flesh thick, of fine texture, excellent quality, yellow; turns out dry, mealy and sweet either baked or boiled. Very productive.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.50

### ITALIAN OR ZUCCHINI

Favorite Italian squash. A delicious summer sort, should be eaten when young and 4 to 6 inches long.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.25

## SPINACH

Spinach supplies the most healthful greens we have. Hardy and easy to grow. Sow 1 inch deep in rows and thin out the plants to 3 inches apart. Plant in March and April, August and September. Does not mature well in hot weather.

### BIG CROP

New Giant Spinach of Real Merit

Big Crop is a quick growing, large-leaved variety, and will produce an immense crop quicker than any other, yet it will stand long before going to seed. Leaves large and upright, almost smooth, and of excellent color and quality.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.00

### KING OF DENMARK

Large, round, thick leaves which are a rich, dark green; valuable sort, good quality.

**IMPROVED THICK-LEAVED.**—Grows very rapidly, forming a cluster of large smooth leaves of fine color and quality. Very hardy; popular for spring or late fall.

**PRICKLY WINTER.**—Very desirable; very hardy; bears large, thick, broad pointed leaves. A fine winter variety.

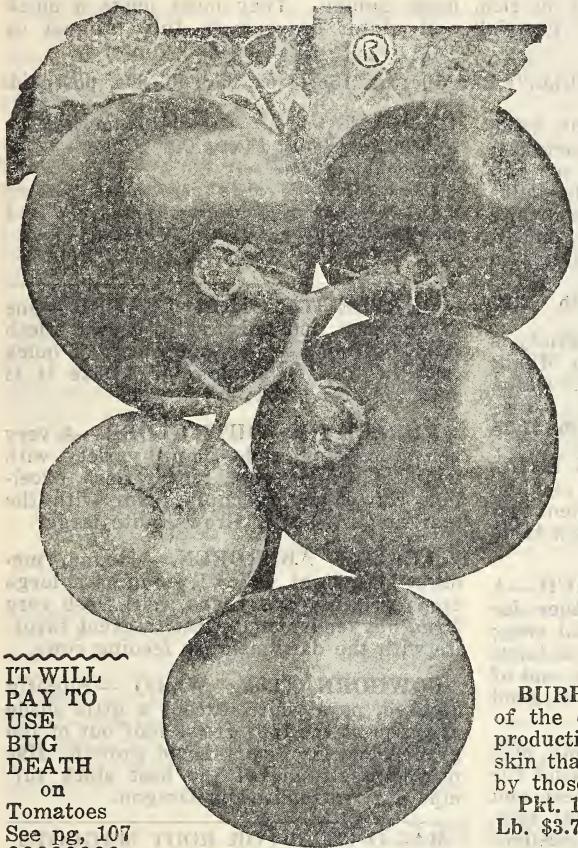
**PRICES.**—Your choice of above, except Big Crop: Pkt. 10c; oz. 15c; 4 oz. 25c; lb. 60c; 10 lbs. any kind, 10c less per lb.



"Big Crop" New Spinach

**Tomato Plants**  
in any quantity

# TOMATO



IT WILL  
PAY TO  
USE  
BUG  
DEATH  
on  
Tomatoes  
See pg. 107

**SPARK'S EARLIANA.**—Remarkable for its earliness, large size, uniform shape, attractive red color, and productiveness. The fruit is solid and the quality is all that could be desired. Leading early market variety.

Pkt. 10c;  $\frac{1}{2}$ -oz. 25c; oz. 40c; 4 oz. \$1.25

**ONDEROSA.**—An old variety and as yet unsurpassed in size. Very solid, few seeds and of delicious flavor; often called the beefsteak tomato; dark crimson; 10 to 15 days later than the early sorts. Claimed by many to be the very best table variety in existence for slicing.

Pkt. 15c;  $\frac{1}{2}$ -oz. 35c; oz. 65c; 4 oz. \$2.00

**DWARF CHAMPION.**—Often sold as Tree Tomato. Fruit smooth, medium sized, solid and of good flavor.

Pkt. 10c; oz. 50c; 4 oz. \$1.50

## SALSIFY

Vegetable Oyster

Plant early, same culture as parsnips.  
Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

Use "Semasan," Page 36  
Prevents Damping Off

## ROUTLEDGE SPECIAL

The "Best" Extra Early Bright Scarlet Tomato.

Our seed is grown under contract by the best tomato expert on this Coast. A vigorous, healthy grower, producing ripe fruit extremely early and throughout the entire season. Very productive. Fruit medium size, almost round. Very smooth and free of cracks. Beautiful bright scarlet, very solid and firm but tender meated and of superior quality.

Pkt. 15c;  $\frac{1}{2}$ -oz. 40c; oz. 60c; 4 oz. \$1.75.

## CHALK'S EARLY JEWEL.

Our most popular large, smooth, fine flavored, extra early, bright red tomato. The flesh is thick, solid and of superb quality. A heavy cropper, of large size; excellent fruit freely produced throughout the season. The plants are healthy and strong. Excellent market variety.

Pkt. 10c;  $\frac{1}{2}$ -oz. 25c; oz. 40c; 4 oz. \$1.25.

**BURBANK.**—A wonderful variety. One of the earliest, smoothest, solidest, most productive, bright scarlet tomato, with a skin that will peel easily. Highly praised by those who have tried it.

Pkt. 15c;  $\frac{1}{2}$  oz. 30c; oz. 40c; 4 oz. \$1.25; Lb. \$3.75.

**BONNY BEST.**—Highly prized by many market gardeners; fruit large, smooth and of a rich scarlet; flesh thick with a small core. Excellent quality. Slices exceptionally well. Nearly globe shaped, very uniform. Good variety for greenhouse forcing. Ripens after Earliana.

Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 40c; 4 oz. \$1.25

**COMET.**—The best tomato for greenhouse forcing. Fruit rich scarlet, smooth and round, produced in abundance. Equally good outside.

Pkt. 10c; oz. 45c

**YELLOW PEAR.**—Used for preserves. Fruit small, distinctly pear shaped. Sweet and free of acid.

Pkt. 10c; oz. 60c

**GROUND CHERRY or HUSK TOMATO.**—Prized for preserves, pies and sauce. Will keep in to the winter. Fruit yellow.

Pkt. 10c; oz. 50c

## TOBACCO

Culture practically same as cabbage.

### HAVANA OR CONNECTICUT SEED

**LEAF.**—Both good hardy varieties for general planting here.

Pkt. 10c; oz. 75c

## HIGHEST QUALITY

## TURNIPS

## PURE STRAINS

For spring use sow very early in rich, loose ground. They must make a quick growth to be tender and sweet. For fall and winter use sow in July, August or early September.

PRICES.—All prices except "Milan": Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 80c, postpaid.

**WHITE MILAN.**—An excellent table turnip, and the earliest of all varieties; adapted for very early spring or fall planting. The tops are small; the bulbs of medium size, flattened, and ivory-white in color. The flesh is fine-grained, tender, and of mild, sweet flavor. It remains in good condition for some time.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

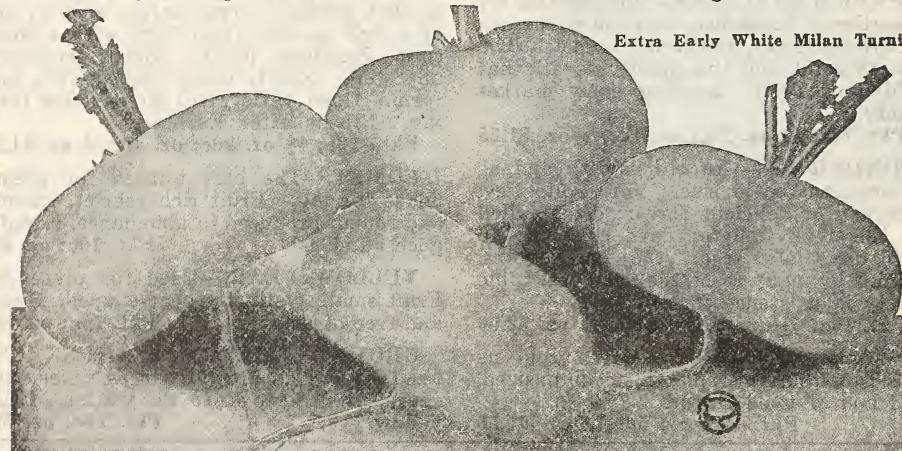
**PURPLE TOP MILAN.**—This variety is ready for table as early as White Milan; an equal to it in every way; flesh is white, firm and delicate.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

**ORANGE JELLY, or GOLDEN BALL.**—Delicate and sweet, yellow flesh, medium in size, firm, crisp and most excellent flavor; keeps well and is superior as a table variety.

**EARLY WHITE FLAT DUTCH.**—A leading white fleshed variety; either for the family, market garden or field crop; it is medium size and produces a large crop; the flesh is firm, but tender, and of a superior rich, buttery flavor; a good keeper.

**WHITE EGG.**—Is perfectly smooth, of a pure clear white; a very choice kind for table use; of excellent flavor, sweet and mild; pulls clean from the ground; thin, snow-white skin. Egg shaped. Excellent market variety. See prices above.



Ore., Jan. 29, 1929.  
Routledge Seed & Floral Co.  
Portland, Oregon

Dear Sir: We were very much pleased with the crop we had last year from seed purchased at your stores. Thanking you,  
MRS. W. O. KARNES.

**PURPLE TOP STRAP LEAVED.**—One of the best and universally grown; flesh firm, but very tender and sweet; of quick growth. As it attains large size it is profitable for stock; keeps well.

**PURPLE TOP WHITE GLOBE.**—A very heavy cropping, globe-shaped variety, with white skin and sweet, tender flesh, excellent flavor and much in favor with the market gardeners. Grows quite large.

**YELLOW ABERDEEN.**—Round, medium size, light yellow; produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet; a great favorite with the dairymen for feeding cows.

**COWHORN (Long White).**—Slightly crooked, pure white, except a little shade of green at the top; grows half out of the ground and is of very rapid growth. Has proved itself one of the best stock turnips ever introduced in Oregon.

**MAG-O-TITE" FOR ROOT MAGGOTS**  
See Page 109

**THE GARDEN GUIDE**—Latest Edition. A complete handbook for the amateur gardener. Fifth Edition, revised up to date. 388 pages and over 275 teaching illustrations, with beautiful cover in four colors. Garden Guide has wonderful chapters devoted to the Vegetable, Flower and Fruit Gardens. It tells you how to prune, propagate plants, construct hotbeds, how to spray, etc. Covers every step from spading the ground to preserving the harvest. Price, cloth bound, \$1.50; postpaid, \$1.65. Paper bound \$1.00; postpaid, \$1.10.

## RUTABAGA—SWEDES

For feeding stock in fall and winter there is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock, and serve to keep them in good condition.

**IMPROVED AMERICAN PURPLE TOP.**—The leading and most popular variety, being very distinct in type, attaining a wonderfully large size; immense yielder; the flesh is very firm, cream yellow, fine grained, sweet and tender. Excellent both for table and stock feeding. Keep all winter.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 80c

**SWEET RUSSIAN.**—This variety is most excellent either for table or stock; it grows to a very large size; flesh white, solid, of a firm texture, sweet and rich, an excellent keeper.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 80c

## HERB SEEDS

Pot, Sweet and Medicinal

Herbs in general delight in rich, mellow soil. Those marked with a (\*) are perennial. All the following Herbs 10c per Packet, unless Otherwise Priced.

	Oz.
Anise.—Seeds aromatic; used medicinally.....	35c
*Balm.—For culinary purposes .....	50c
Basil.—Sweet; for flavoring soups .....	40c
Borage.—For flavoring; also bee pasture....	40c
Caraway.—For flavoring .....	25c
*Catnip.—Mild nervine; pkt. 15c.....	\$1.00
Coriander.—Used for flavoring .....	25c
*Dill.—Used medicinally and for pickles.....	25c
*Fennel.—Flavor of Celery .....	40c

	Oz.
*Horehound.—Bitter; for tonic.....	60c
*Hysop .....	60c
*Lavender.—True, for fragrance .....	50c
*Marjoram.—Sweet, for flavoring .....	40c
*Rosemary.—Aromatic oil, pkt. 15c .....	75c
Summer Savory.—For flavoring.....	35c
*Sage.—For tea flavoring and dressings.....	40c
*Thyme (broad leaf).—For soup, pkt. 15c.....	75c

\*Thyme (broad leaf).—For soup, pkt. 15c..... 75c

## VEGETABLE PLANTS

We grow large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in TWO GRADES—plants "PULLED" direct from the seed beds AND THOSE that have been TRANSPLANTED into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts. Tell us your choice of varieties, and we will send it or give you a good substitute. NO PLANTS SENT C. O. D. Write for prices on 5 to 10 thousand lots.

**NOTE.**—Dozen and 100 prices are postpaid; 25c less per hundred if called for. We will send 1,000 lots by express at your expense.

### CABBAGE, GARDEN KALE, COW KALE

	Dozen	100	1,000
Early or late, transplanted.....	\$ .25	\$1.25	\$8.00
Pulled after June 10.....	.85	4.00	

When ordering Kale be sure and state whether the Curly Garden or Cow Kale is wanted.

### CAULIFLOWER AND BROCCOLI PEPPER AND BRUSSEL SPROUTS

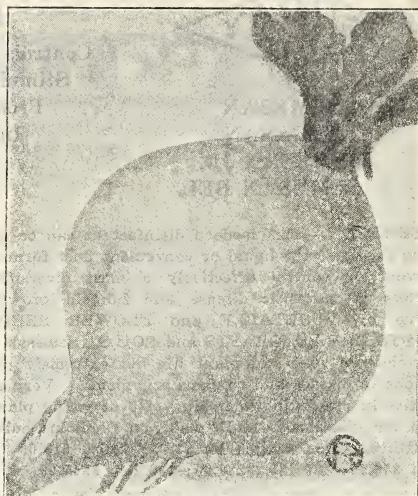
	Transplanted .....	\$ .30	\$1.50	\$10.00
Late kinds, transplanted .....	.30	1.25	8.50	

Cauliflower and Broccoli pulled after June 20 ..... .85 | 6.00 |  |

### CELERY AND CELERIAC T. R.

	Leading kinds, transplanted.....	\$ .30	\$1.25	\$ 8.50
Pulled after May 15 .....	1.00	7.50		

**NOTE.**—Pot grown tomato plants should have all the dirt left on the roots and are not mailable.



American Purple Top

### TOMATOES

	Dozen	100	1,000
Leading kinds, our selection transplanted .....	\$ .35	\$1.50	\$10.00

We do not sell "pulled" tomato plants from the seed bed. They should be transplanted at least twice.

**Pot Grown Tomato Plants.**—These large plants give the most profitable results. Cannot be mailed. Prices: 3-in. pots, 15c each, \$1.50 doz.; 4-in. pots, 20c each, \$2.00 doz.; must go by express, charges collect.

### SWEET POTATO PLANTS

	Dozen	100	1,000
Sweet Potato Plants .....	\$ .35	\$1.50	\$10.00

Send your orders in early, we'll fill in proper season, from May to July 10. Oregon grown, best varieties.

**Chives, (Schnittlauch).**—Per bunch, postpaid, 25c



SEMESAN  
CERESAN  
SEMESAN JR.  
SEMESAN BEL.

## THE PREMIER SEED DISINFECTANTS

Controls Seed-Borne Diseases  
Stimulates Germination  
Produce Sturdier Plants  
Increases Crop Yields  
Improves Quality  
Makes Money for Growers



**SEMESAN.**—This modern disinfectant can be applied in either the liquid or convenient dust form to prevent or control effectively a most diversified variety of parasitic disease and fungoid growths borne by VEGETABLE and FLOWER SEEDS, ROOTS, BULBS, GRAFTS and SOILS. Semesan is harmless to seed and plant life but extremely poisonous to disease and fungous organisms. Very effective in preventing "damping off" of young plants and for "hard rot" and "scab" on Gladiolus bulbs. **PRICES.**—2 oz. 50c; 1 lb. \$2.75; 5 lbs. \$13.00; 25 lbs. \$56.25; 100 lbs. \$228.00; 300 lbs. \$645.00.

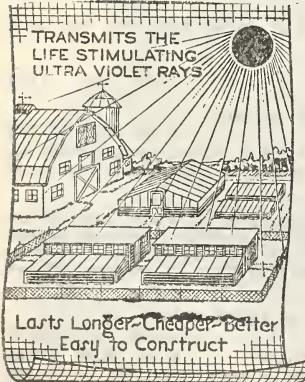
### CERESAN

**For Grain Seeds.**—Has proven effective in controlling seed-borne diseases as bunt or stinking smut of wheat; stripe disease of barley; loose and covered smuts of barley and oats and covered kernel smut of sorghum. It is the only dust treatment which has successfully controlled these destructive grain diseases. Ceresan does not injure the seed nor the grain drill. Only 2 oz. of Ceresan required per bushel of wheat, rye or sorghum, and 3 oz. for barley and oats. Easy to apply, economical to use. **Prices.**—8 oz. 50c; 1 lb. 75c; 5 lbs. \$3.00; 25 lbs. \$12.50; 100 lbs. \$49.00; 300 lbs. \$144.00.

**FOR THE HOME GARDENER.**—A simple and easy method of using Semesan in a small way is to open the seed packet, put in a little Semesan powder, fold over the end of the packet and shake it. Then sow right out of the packet. The powder that does not adhere to the seed will drop in the seed drill and give further protection.

"Du Bay" Brand Seed Disinfectants is the result of incorporation of the Bayer and Dupont Companies. **TREAT ALL SEEDS BEFORE PLANTING WITH DU BAY DISINFECTANTS.** Free descriptive and instructive booklet on request.

Semesan Disinfectants Make Good Seeds Grow Better—Send for Free Booklets



## CELLO SCREEN GLASS

For poultry houses and scratching sheds, hot beds, cold frames, doors or windows, sleeping porches, partitions or enclosures or anywhere in place of glass. It's unbreakable, hail proof, rain and wind proof, cold proof, rust proof and very light in weight and flexible.

**SAVES MONEY AND LABOR.**—For the uses recommended, Vio-Ray is far superior to glass. Glass is expensive, easily broken and requires skilled labor to construct. VIO-RAY is easy to frame, light in weight, flexible and will not break. VIO-RAY costs less than glass yet does what glass cannot do, for it transmits the sun's healthful life-producing violet rays.

Anyone can easily build with VIO-RAY for the only tools that are necessary are shears, tacks and hammer.

**SCREEN GLASS** comes in rolls 100 ft. long, 36 inches wide. We cut you any length wanted. **PRICE, 14c square foot; \$1.25 square yard.**

**GLASS FABRIC.**—A processed cloth; gives much the same results as screen glass, and very durable; 36 inches wide. **PRICE, 35c square yard; add 5c per yard if wanted by parcel post; 100-yard roll, \$30.00.**

**Note.**—A small sample of Screen Glass or Fabric free on request.



## Marvel "Q. A."

(Q. A. Quick Action)

### ODORLESS FERTILIZER

For vegetable and flower beds, lawns, fruit and berry bushes, trees, shrubs and roses, ferns, palms and house plants.

The best fertilizer for the city gardener; clean and odorless. Remember, it's all fertilizer; no filler, almost 100 per cent soluble and a Marvel in action, a giant in strength, and the small amount necessary to use makes it the cheapest and most efficient high-grade fertilizer on the market, and last, but not least, it is odorless.

In "Marvel" we have a meritorious and odorless fertilizer, put up in concentrated form, thereby making it inexpensive to send by parcel post, express or freight. Being a concentrated fertilizer, only a very small amount is required to produce the largest yield, a spoonful to a plant, a handful to a hill of potatoes, etc.

Remember, a 25-lb. bag of Marvel Q. A. is equal in plant food to 100 lbs. of most any other commercial fertilizer on the market. A complete and balanced plant food, very rich and strong, therefore must be used with caution. Always mix it well with the soil—never put it directly on seed or roots.)

**PRICES.**—2-lb. carton (not postpaid), 25c. P. P. wgt. 2½ lbs. 10 lbs., \$1.00; 25-lb. bag, \$1.75; 100-lb. sack, \$5.50. Full directions with each lot. Write for quantity prices.

**MAIL.**—If wanted by parcel post, add postage. "Marvel" is odorless and 25-lb. bags will go by mail cheaper than express or freight in most cases. Descriptive booklet on request.

**NOTE.**—Three sacks of H. Q. SHEEP and one 25-lb. sack "MARVEL" mixed together will make a very rich combination fertilizer, that will prove highly satisfactory for all uses, as it would be very rich in plant food and supply the necessary humus for heavy soils. A WONDERFUL TOP DRESSING FOR LAWNS AND UNEQUALED FOR GENERAL GARDEN USE.

### Imported Granulated

Granulated Peat Moss or Mull is a brown colored virgin soil, formed years ago by the growth and decay of mosses, aquatic plants, decomposed vegetable matter taken from the bottom of drained fresh water lakes. It is dried and packed under pressure into burlap wrapped bales about 3½ feet long and 2 feet square, weighing about 175 pounds. It being shipped to America from Germany and Holland in car load, yes, even boat load lots. It's a product nurserymen, horticulturists, florists and gardeners have wanted for years. It is a moisture retaining humus; an important aid in saving soil fertility. Adds humus to the soil, making the ground more pliable and improves the general texture and condition. Conserves moisture in light,

## Marvel "Q. A."

All We Claim for It

We are printing only a few of the many reports received.

Crawfordsville, Ore.

### Routledge Seed & Floral Co.

Gentlemen: In reply to your inquiry about Marvel Fertilizers will say I tried it on radishes, sweet peas, lettuce and cucumbers according to directions and obtained great results. As proof we had some vegetables in the same row without the fertilizer which did not do half as well. I am well pleased with the results and can recommend it very highly.

Yours very respectfully,

J. W. V.

Winlock, Wash.

### Routledge Seed & Floral Co.

Dear Sirs: I want to tell you how well I like the results of Marvel Fertilizer.

I moved on a new place and the garden soil looked like nothing would grow. However, I got it in condition to plant and after sowing seed I used your Marvel Fertilizer on a few rows as an experiment. I was certainly amazed. The seed sown without was slower coming through and the plants were not as healthy looking.

Corn decidedly showed the effects of the Marvel Fertilizer.

Yours truly,

R. S. Y.

Crescent City, Calif.

### Routledge Seed & Floral Co.

Gentlemen: I used Marvel Fertilizer on my Tomato vines and they set fruit thick like grapes. I had one cluster of five pounds. Nothing was ever seen like it in this low coast climate.

I also used it on my house plants and ferns and found it all you claim for it. Wonderful.

MRS. H. C.

Portland, Ore.

Gentlemen: After using the sample and then a sack of your Marvel Fertilizer, I am convinced that it is truly marvelous in the cultivation of flowers, vegetables and lawn. I say this after experimenting with a number of fertilizers in the past. It is clean, handy and effective.

Respectfully yours,

C. E. R.

## Peat Moss

A Soil Conditioner  
not a fertilizer

sandy soil; contributes effective drainage and lightens heavy soil.

Used in landscape work, lawns, vegetable gardens, flower beds and in potting soil, as a mulch over seeds or plants. It is really a wonderful factor in many ways. In all garden books and magazines, especially of English origin, you read about the great value of Peat.

**Note**—There is quite a difference in quality and price. We offer only the best brand of fine grade.

**Prices:** Fine ground for garden and lawn Original Bale, \$3.50. 2-bu. sacks, \$1.00. 5 to 10 lbs. at 6c lb., postage extra.

# Routledge SEED & FLORAL CO.

(Highest Quality)

## "H. Q." Brand Sheep Manure

Put up in printed, new, 2-bu. bags, perfectly dry. Bag weight when filled, 66 lbs. Carload buyers should write for special price.

**"H. Q." BRAND SHEEP MANURE** is prepared from an unusual quality of genuine sheep manure, taken from covered feeding sheds (not from open corrals). It has never been exposed to the weather, and is free from all sand, dirt and weeds. The manure is thoroughly dried and all the water content removed. Then it is uniformly ground or pulverized. Light in weight, but **heavy** in plant food.

"H. Q." BRAND is richer in plant food on account of the dry hay and grain fed and free from weed seed for the reason that while the sheep are in feeding sheds being fattened for the market, they do not eat any weeds as they would if they were out on the range and in "open corrals at night only."

For building up the soil or as an all-purpose plant food "H. Q. BRAND (PURE PULVERIZED SHEEP MANURE), gives wonderful results. It is a natural organic plant food that produces immediate results. It stays "on the job" and assures a quick, healthy growth and a profitable crop.

"H. Q. Brand is the **HIGHEST QUALITY** Sheep manure on the market. A pure, high-grade product worth much more than most stocks sold. The chemical analysis on every bag tag proves it. Most ground sheep manure is sacked so wet that it will "heat" and rot the sack in a short time. "H. Q." Brand is properly cured and will stay in the sacks for six months or more. We have it packed in "paper-lined" (2 bushel, 66 lbs.), printed burlap bags. Perfectly dry and clean to handle.

**Note.**—Three sacks of "H. Q." sheep mixed with a 25-lb. sack of Marvel will give you a very rich, complete and economical fertilizer for all general purposes.

**Prices.**—Per sack, \$1.25; 3 sks., \$3.50; 5 sks., \$5.50; 10 sks., \$10.50; 15 sks. or more, \$1.00 per sack. Small lots—2 lbs., 15c; 5 lbs., 25c; 30 lbs., \$1.00; postage extra if wanted by mail.

### SHEEP MANURE—Ordinary Grade

If you want the common or ordinary grade from open corrals we can supply it in competition with anyone, but we do not recommend a cheap grade. Price: \$1.00 per sack, 3 for \$2.50. Low ten prices on request.

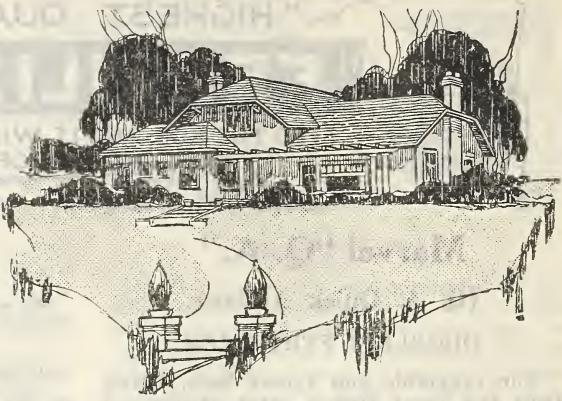
### SULPHATE OF POTASH

Very rich in potash. For root and grain crops—125 lbs. per acre. Price, 100 lbs. \$4.00. Quantity price, write.

### BONE MEAL FERTILIZER

This is finely ground and of best quality. Used for lawns roses, shrubs and trees. Not very quick in action and should be applied in the fall or very early spring. Use 1,000 to 2,000 lbs. per acre.

Prices: 5 lbs. 20c; 10 lbs. 50c; 100 lbs. \$2.00; ton, write.



Use "H. Q." BRAND and have a beautiful lawn, lovely flowers, handsome shrubs and a profitable garden and orchard.

The genuine "H. Q." Brand, weed-free, is packed in paper lined printed burlap bags—worth almost double common stock.

### DIRECTIONS FOR USING "H. Q."

**VEGETABLES AND FRUITS.**—If you want big crops of crisp, tender vegetables use "H. Q." Brand scattered broadcast and cultivated into the top soil: 10 lbs. per 100 sq. feet; a handful per individual plant; along the rows 1 lb. to every 10 feet; a pint per shrub, 5 to 10 lbs. per tree, etc. Field use 1,000 to 2,000 lbs. per acre.

**FLOWER GARDENS.**—Luxuriant green foliage and a wealth of vivid colored flowers quickly follow an application of "H. Q. Brand" Sheep Manure. Dig it deeply into the garden soil and mix a small handful with the soil under each plant or bulb and more for vines, shrubs and trees, depending on size. Applications during the growing season will put new life into your plants and prolong the blooming season.

**LAWNS.**—"H. Q. Brand" Sheep Manure produces thick velvety green turf of lasting beauty. Give your lawn an application early in spring and you will be surprised at the new beauty it will develop. In making new lawns, scatter broadcast 10 lbs. to every 100 sq. feet and rake into the surface soil. On old lawns, rake well and use about 3 sacks for the average city lot with a house on it.

### LIME—PULVERIZED

Lime is an indirect soil improver and a very valuable conditioner, and releases the plant foods. Its application on heavy or clay soil will open it up, make it lighter and more workable. Few people realize its value. Most Western Oregon soils need lime. Use 1 to 2 tons per acre on plowed fields. For garden or lawn about 2 lbs. per 100 sq. feet.

**H. Q. GARDEN LIME.**—This is put through a process that makes it finer and lighter than ground lime rock. Quicker in action, richer in calcium, and well worth the price. Excellent for moss in lawns and general garden and farm lands.

Prices: 5 lbs. 20c; 10 lbs. 25c; 50 lbs. \$1.00; 100 lbs. \$1.75. Write for quantity price.

## FERTILIZERS—Continued

Fertilizer prices on this page subject to market changes. Write for quantity prices

### NITRATE OF SODA

It is very quick in action, stimulating rapid growth. Being quickly soluble, it should not be applied until spring on garden truck.

Prices: Lb. 15c; 5 to 10 lbs. @ 7c; 15 to 25 lbs. @ 6s lb.; 100 lbs., \$3.75; write for quantity price.

### SUPERPHOSPHATE

This is what is known as acid phosphate, being phosphate rock that has been treated or processed, to make the phosphoric acid available. Has become very popular among grain and fruit growers. Use at the rate of 300 lbs. and up per acre.

Prices: 100-lb. sks. \$2; 5 to 10 sk. lots at \$1.75. Ton price, write.

### LAND PLASTER

(Gypsum.)—An indirect fertilizer as it releases plant food and changes soil conditions. Used largely on grass and clover crops.

Prices: 100 lbs., \$1.00; write for quantity price.

### SULPHATE OF AMMONIA

Strong in nitrogen. Will stimulate growth almost immediately.

Prices: Lb. 10c; 5 lbs. 30c; 25 lbs. \$1.10; 100 lbs. \$3.50.

### Stim

U

### Plant

An All-the-Year Fertilizer for Gardens and House Plants



Carton of "Tablets"

Stim-U-Plant is an odorless, highly concentrated plant food, in tablet form

Simply insert tablets in soil near plants, or dissolve in water at the rate of four tablets to the gallon and apply as liquid manure. Complete directions with every package.

Order Stim-U-Plant tablets with your seed and plant order. PRICE POSTPAID; trial size, 15c; small size, 25c; 100 tablets, 75c; 1,000 tablets, \$3.50.

### MURIATE OF POTASH

This fertilizer is especially valuable to fruit trees and berries. Price, 100 lbs. \$3.00; write for quantity price.

## THE REAL IMPROVEMENT IN INOCULATION



Modern farmers demand modern methods of farming and agree that all legume seed should be inoculated. Good inoculation puts nodules on the roots of such plants as alfalfa, clover, peas, beans, soybeans and vetches. Nodules on the roots gather nitrogen from the air, that is, fertilizer at low cost.

MCQUEEN'S INOCULATOR is the only nitrogen-fixing bacterial culture that is ABSOLUTELY GUARANTEED to give satisfactory results, or your money back (read guarantee on every package). This guarantee is your best protection—you are the judge. Use McQueen's confidence, as thousands of others have done for many years.

MCQUEEN'S INOCULATOR produces nodules; thus increases the crop—improves the quality—makes the soil a richer and better soil for crops that follow.

It's easy to use MCQUEEN'S—Apply it wet or dry—simplicity itself—takes only a few minutes' time to apply to seed. It is quality merchandise. Large volume of sales permits the following:

### REDUCED POSTPAID PRICES

Always State on Order the No. or Seed You Want to Treat

#### FOR SMALL SEEDS

No. 1 for Alfalfa and Sweet Clover.

No. 2 for Red Alsike and White Clover.

1/2-bu. size (30-lb. seed) .....	\$ .50	1-bu. size (60 lb. seed) .....	\$ .50
1-bu. size (60-lb. seed) .....	1.00	2-bu. size (120 lb. seed) .....	1.00
2 1/2-bu. size (150 lb. seed) .....	1.75	5-bu. size (300 lb. seed) .....	1.75
GARDEN SIZE, combination culture, for PEAS, BEANS and SWEET PEAS in 2 sizes. PACKET size 20c		HALF-BUSHEL size 50c.	

Be sure to include McQueen's Inoculator with all your Legumes Seed Orders.

INCREASE THE FERTILITY OF YOUR SOIL BY USING MCQUEEN'S INOCULATOR. DESCRIPTIVE LEAFLETS ON REQUEST.

#### FOR LARGE SEEDS

No. 3 for Vetches, Field and Garden Peas.

No. 4 for Field and Garden Beans.



Nothing adds a greater air of refinement to a home than a beautiful, well-kept lawn. The planting of a few shrubs, roses and a liberal planting of flowers should not be forgotten.

## LAWN GRASS SEED

Though we offer, separately, seed of many of the grasses suitable for the lawn, we consider as very erroneous the somewhat prevalent idea that any single variety of grass seed is preferable or equal to a mixture.

### R. R.'s EVERGREEN LAWN GRASS

To obtain a good Lawn Grass Mixture, it is necessary that the best possible seed of fine grasses be used in the combination, embracing such varieties as are of neat, close growth, extreme hardiness, and adapted to produce a quick, permanent sod. Judicious selection of seed, knowledge of the habits, vigor, quality and hardiness of varieties used in the mixture can only be gained by thorough and practical tests under different climatic and soil conditions. After many years' experience, we offer our pure, clean Evergreen Lawn Grass Seed Mixture, composed of a thoroughly balanced combination of various native and foreign fine-leaved, deep-rooting grasses of interweaving habit, that will flourish under varied soil and climatic conditions, and which may be depended upon to produce a beautiful, compact, evergreen sod that will resist trampling and hard usage, and at the same time present that handsome, velvety appearance so much desired.

**R. R. EVERGREEN LAWN GRASS.**—Recognized by expert gardeners as the "highest quality." Portland's finest lawns have been grown from this mixture. PRICE, 60c per lb. Add postage by mail.

**KENTUCKY BLUE GRASS.**—Fancy, 50c lb.; H-Q. FOR LAWNS, 60c lb. Postage extra.

**Note.**—You better spend a few cents or a dollar extra on the seed you buy and have a fine lawn that you'll be proud of. Sow 1 pound seed to every 200 square feet for best results.

**WHITE CLOVER.**—Many gardeners like white clover mixed in lawn seeds and it is excellent, especially if your soil is heavy or poor. White clover grows quickly and acts as a nurse crop and protects the fine leaved grasses. Choice, 50c lb.; Extra Fancy for Lawns, 60c. Postage extra.

**EVERGREEN LAWN**, mixed with one-fourth FANCY WHITE CLOVER, 60c lb. Postage extra.

**LAWN BLUE GRASS**, with one-fourth FANCY WHITE CLOVER, 60c lb. Postage extra.

**CREEPING BENT GRASS.**—Imported. \$1.00 lb.; PACIFIC or SEASIDE, \$1.50 per lb.

**FANCY RED TOP** for lawns, 45c per lb. Postage extra.

**SHADY LAWN SPECIAL MIXTURE**, 75c lb. Postage extra.

**Note**—10-lb. lots 5c per lb. less on above grasses.

**Fertilize the Lawn Every Fall and Spring.**

**FEED THE LAWN**—Do not starve the grass if you want it to look green and velvety; use "Marvel" and H. Q. Sheep as per directions. See pages 37 and 38.

### FOR "BROWN SPOT" IN LAWNS

Use Dubay Semasan and Nu-Green as the most effective means of controlling "Brown Patch," which attacks the turf of golf courses, tennis courts and lawns. See page 36. Pamphlet free.

"Highest Quality"

## GRASS SEEDS

"Highest Quality"

Only one grade priced, the best, choice, clean seed. Write for prices in quantity. Single pound prices on Grass and Clover Seeds are prepaid. Prices per ten, fifty and one hundred pounds are not prepaid and are subject to market changes. For reference tables amount to sow per acre, see inside back cover.

## You Will Always Get Your Money's Worth

Prices on Grass and Field Seeds change occasionally, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted, or order what you want at catalog prices, and we guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower.

## KENTUCKY BLUE

One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year.

Choice, 10 lbs., \$3.80; 100 lbs. @ 35c per lb.; per lb., postpaid, 50c.

FOR LAWNS.—Blue Grass is used very extensively for lawns and is found in all good lawn grass mixtures.

Our H. Q. (highest quality) Extra Fancy seed is unexcelled for weight and purity. Few dealers handle this high grade recleaned seed on account of its cost. This seed, straight or mixed with Fancy White Clover, is excellent for lawns.

H. Q. Extra Fancy, 10 lbs. \$4.80; per lb., postpaid, 65c; 100 lbs., write.

## ENGLISH RYE GRASS

A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. It grows very rapidly and makes a good showing quicker than most grasses.

10 lbs. \$1.50; 50 to 100 lbs. @ 10c lb.; per lb., postpaid, 30c.

## ITALIAN RYE

A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for meadows or permanent pastures; thrives best on soils that are slightly moist; makes fine hay.

Imported Seed, 10 lbs. \$1.30; 50 to 100 lbs. @ 10c; per lb., postpaid, 30c.

## RED TOP

Of great value for mixing with hay or permanent pasture grasses; will succeed in nearly any soil, but thrives best in a rich, moist soil; makes a fine bottom growth, rendering it invaluable to be sown with timothy, orchard or alsike clover.

Fancy Hulled Solid Seed, 10 lbs. \$3.80; 50 to 100 lbs. @ 30c; per lb., postpaid, 45c.

H. Q. Extra Fancy, for lawn seeding, 10 lbs. \$4.00; 50 to 100 lbs., 38c; per lb., postpaid, 50c.

## ORCHARD

Of the greatest value in permanent pasture mixtures; thrives best in moist, shady places, but will withstand drought exceedingly well. Will do well under trees, or shady places. Valued for hay crop, as it is very nutritious if cut early.

10 lbs. \$3.80; 50 to 100 lbs. @ 30c; per lb., postpaid, 45c.

## TIMOTHY

As a hay crop, timothy is unsurpassed by any other grass. Thrives on ordinary soil, but succeeds best in a moist loam.

10 lbs. \$1.20; 50 to 100 lbs. @ 10c; per lb., postpaid, 25c.

## SPECIAL PASTURE MIXTURES

**MIXTURE FOR BURNED-OVER LAND.**—In grading and cleaning grasses and clovers we frequently find combinations that are difficult of preparation and while the seeds are often of excellent germination and quality, they cannot profitably be separated and cleaned, so we blend them to produce pasture mixtures suitable for sowing on burns and logged-off land. In ordering state whether for high or low lands. Price per 100 lbs., \$15.00; special prices by the ton.

Prices Subject to Market Changes. Write for Prices When Wanted.

## CREEPING BENT

Very desirable for either lawns or putting greens on account of the fine, firm and enduring turf it produces. Used very extensively on our local golf courses. We offer highest quality pure seed.

Oregon Grown (Pacific), true and pure, per lb., postpaid, \$1.60.

Imported, per lb., postpaid, \$1.10.

Write for quantity prices.

## ROUGH STALK MEADOW

For shady places under trees or wood pasture.

Per lb., postpaid, 70c.

## CHEWING FESCUE

Recommended for lawns and golf links. It is a fine-leaved low-growing grass that forms a compact turf. Does well on all soils, even on dry sandy soils.

10 lbs. \$4.30; per lb., postpaid, 60c.

## MESQUITE

It is usually sown on virgin soil, without cultivation, after the ground has been burned over.

Fancy, hulled Seed, 10 lbs. at \$2.10; 50 to 100 lbs. at 18c; per lb., postpaid, 35c.

## BROMUS INERMIS

On account of its strong perennial character, and its unusual drought-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. Very heavy yielder.

10 lbs. \$2.30; 50 to 100 lbs. @ 20c; per lb., postpaid, 35c.

## SUDAN GRASS

Sudan Grass is strictly an annual and dies each year. This makes it fit admirably into any system of rotation. It is a tall, quick-growing grass, reaching a height of from 5 to 7 feet. The plant stocks wonderfully and yields well.

It belongs to the sorghum family, but is more slender and grassy in manner of growth, earlier and harder; yields a good crop of first class hay or green feed two to four tons per acre and under irrigation as high as eight tons per acre.

**SEEDING.**—Plant late in the spring or during the summer as a catch crop. Yields best sown in drills 18 inches apart and given one cultivation. 10 lbs per acre. If sown broadcast and harrowed in, 25 lbs per acre.

Per lb., postpaid, 35c; 10 to 25 lbs. @ 21c, postage extra; 100 lbs., write.

## OTHER GRASSES

Write for special prices, stating quantity wanted.

LB. Postpaid

SHEEP FESCUE, for pasture .....	45c
RED OR CREEPING FESCUE, greens.....	60c
HARD FESCUE, for greens .....	60c
MEADOW FESCUE, for hay or pasture.....	40c
POA TRIVIALIS, best shady lawn grass.....	70c
TALL MEADOW OAT, for hay.....	40c
LAWN GRASS, see pg. 48; CLOVER, pg. 47.	

Prices Subject to Market Changes. Write for Prices When Wanted.

## ALFALFA AND CLOVER SEEDS

Single pound prices on Grass Seed are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to market change. See notes, page 41. For amount of seed to sow per acre, see table inside back cover.

### ALFALFA

Reports prove that Alfalfa will grow in all parts of the West, but requires a deep, loose soil. Will not thrive on heavy clay or where there is hard pan. As soon as cut it immediately commences to grow. Excellent hay or pasture. Alfalfa, once established, is a crop so profitable that every farmer may well take great care to get a stand.

**CHOICE ALFALFA.**—Price: 10 lbs., \$3.30; 50 to 100 lbs. at 32c; per lb., postpaid, 40c.

**DRY LAND ALFALFA.**—For high, dry, hot land, where irrigation is impossible.

Price: 10 lbs. \$3.40; 50 to 100 lbs. at 33c; per lb., postpaid, 40c.

**GRIMM ALFALFA.**—This new variety is very hardy and will stand much more tramping and root injury. In many Western sections it is out-yielding the common variety and proving much more profitable. It is a little earlier and will do well in most all soils except undrained meadows. Not affected by extreme heat or cold, and does better in a wet climate than any other alfalfa. We offer the genuine true Grimm seed.

Prices: 1 lb., postpaid, 60c; 10 to 20 lbs. at 45c lb.; 100-lb. prices on request.

### RED CLOVER

Hardy, and succeeds well on any good soil. The most popular variety.

10 lbs. \$3.00; 50 to 100 lbs. at 27c; per lb., postpaid, 45c.

### ALSIKE CLOVER

Valued highly for sowing with other grasses. Excellent for hay and pasture; valuable for bees; resists both drought and excessive moisture.

10 lbs. \$3.00; 50 to 100 lbs. at 27c; per lb., postpaid, 45c.

## FIELD AND FARM SEEDS

Single pound prices are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to market changes. See notes about shipping, page 41.

### ARTICHOKE

#### WHITE JERUSALEM

Planted and cultivated for the tuber, the same as potatoes. Of great value for feeding stock. They are the best and cheapest hog feed known. They are remarkable for great productiveness, over 25 tons have been raised on one acre. Easier to grow than potatoes. They need not be dug. If hogs are turned in on them they will easily root the tubers out. One acre will keep from 20 to 30 hogs in fine condition for several months. Excellent for fattening if fed with a grain or mash ration. Plant 400 lbs. per acre early in the spring.

By freight or express, 10 lbs. 50c; 50 lbs. \$2.00; 100 lbs. \$3.00. Per lb., prepaid, 20c; 4 lbs. 60c. Write for quantity prices.

### CHEAT SEED

Cheat seed yields a good crop of hay. Sow in the fall or early spring, about 100 pounds per acre.

10 lbs. 60c; 100 lbs. \$3.00.

### WHITE CLOVER

#### (Trifolium Ripens)

Used largely in lawns and permanent pasture mixtures. Accommodates itself to a great variety of soils.

Choice Seed, 10 lbs. \$4.30; 100 lbs. \$40.00; per lb., postpaid, 60c.

For lawns always buy our "H. Q." Fancy Seed, which is the purest high quality seed obtainable, and the true very dwarf, hardy variety.

"H. Q." Fancy Seed, 10 lbs. \$5.50; per lb., postpaid, 70c.

### HUBAM CLOVER (Annual Clover)

Per lb., postpaid, 60c; 10 lbs., \$4.60. Write for prices on larger lots.

### SWEET CLOVER (Bi-annual)

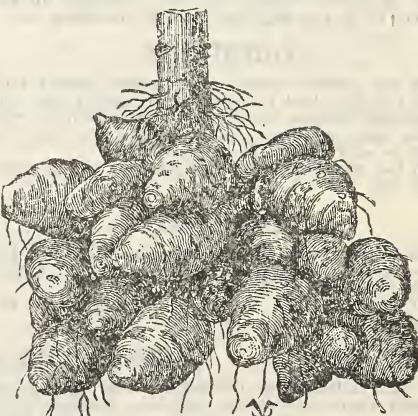
*Melilotus (Alba).*—Excellent for pasture, hay or as a fertilizer to plow under to improve the soil.

Grows luxuriantly on good soils, but it will also grow and thrive on thin, sandy soil, hardpan, gumbo, and clay; especially good on alkali land.

Sweet clover lives two years. It makes large, rapid growth the first season and can be cut for hay or pastured the last half of the summer. The second year it blooms, bears seeds and dies. Will make two crops of hay or a crop of hay and one of seed the second year. Can be plowed under either the first or second year, but to get the full value in humus the second season is better on account of the large roots that penetrate the lower layers of soil, thereby loosening it up and adding much humus and more nitrogen.

Sown very early in the spring. It does well sown either alone or with a light nurse crop of grain. Use 15 to 20 pounds of seed per acre.

Prices: 10 lbs. \$2.00; 50 to 100 lbs. at 15c; per lb., postpaid, 35c.



Artichoke Tuber

## FARM AND FIELD SEEDS—Continued

Prices subject to market changes. See notes, top page 41

### BARLEY

#### H. Q. Beardless

A wonderful yielder, even on dry, sandy soil. Stands up well and not likely to lodge. Makes excellent hay for horses or stock, or a big crop of excellent grain. Get a start of real beardless.

Prices: Postpaid, 1 lb. 20c; 10 lbs. 75c; 100 lbs., write.

**HANNCHEN BARLEY.**—Earliest and best of the 2-rowed barleys. A sure and heavy cropper. Grain plump, thin hull and beards drop or break off readily. For spring planting, but will do well seeded in fall where winters are mild.

By mail, postpaid, 1 lb. 25c; 10 lbs., 75c; 100 lbs., write.

**WHITE HULLESS or BALD BARLEY.**—An excellent beardless barley for stock feeding. Grain plump, heavy, and when threshed is hulless like wheat; a heavy cropper. When grown and cut for hay it produces a crop which is very rich and almost equal to a grain feed. More productive than wheat.

Prices: Postpaid, 1 lb. 25c; 5 lbs. 75c; 100 lbs., write.

### BUCKWHEAT

**SILVER HULL.**—A very good and popular variety; grain is of a light gray color; has a thin husk; matures early, and yields heavily; a good milling variety.

Per lb., postpaid, 25c 10 lbs. \$1.50; 100 lbs., write.

**JAPANESE.**—Good yielder, ripens early; excellent for bees to work on, as it remains in bloom longer.

Per lb., postpaid, 25c; 10 lbs. \$1.50; 100 lbs., write.

### FIELD PEAS

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with oats and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are quite fattening. Sow, if alone, 2 bushels to an acre; if with oats, 30 lbs. peas and two bushels of oats.

**WHITE CANADIAN.**—The leading and most popular kind; seed creamy white; a heavy cropper. Yields 30 to 50 bushels per acre.

10 lbs. \$1.00; 100 lbs., write; per lb. 26c.

**GREEN OR BLUE.**—Valuable variety, seed are green. Used extensively as a dry soup pea.

10 lbs. \$1.25; per lb., postpaid, 20c.

### FIELD CORN FOR THE WEST

If you want to raise some good Field Corn, plant our Western grown Seed Corn. The strains we are offering you are acclimated and especially adapted to our short, cool summers. Eastern and Southern grown field corn seed is all right for green fodder, but of little value on this Coast, if you want the best corn for silo, or wish to raise matured, dry ears, for winter grain.

#### Routledge Pride of the West Field Corn

See Illustration from Photograph

Oregon grown; acclimated. A grand success in Oregon. We have been raising this variety for years, and by selecting the earliest ripening and best select ears, now have a strain that is unsurpassed for a large and profitable crop of large, well matured ears or for cutting for silo.

Routledge Pride of the West Field Corn is an early maturing variety, producing stalks from 6 to 8 and often 10 feet high, and large ears, 7 to 9 inches long. Cobs covered with 14 to 16 rows of deep yellow kernels. It is a heavy yielder. Our strain has been greatly improved in the last few years.

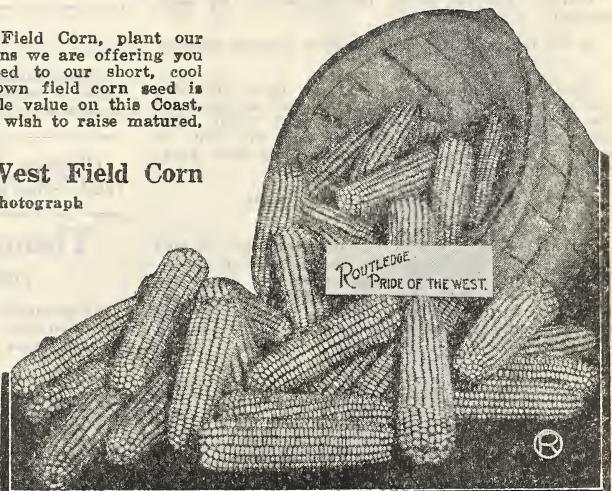
We claim this is the earliest and heaviest yielding strain of Yellow Dent corn grown in Oregon. Try it and be convinced.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50, postpaid; 100 lbs. \$7.50.

#### SWEET FODDER CORN

All varieties of sweet corn possess very much more "sugar" than any feed sort, and this being the most important constituent, it necessarily follows that the corn holding this in greatest quantity has the greatest net value. Drill 1½ to 2 bushels to the acre.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50, postpaid; 100 lbs. \$10.00.



#### MINNESOTA NO. 13

Well and favorably known in many sections of the West.

Northern Grown.—Large pkt. 10c; lb. 20c; 10 lbs. \$1.25, postpaid; 100 lbs. \$7.25.

#### Seed Corn Treatment

**USE SEMESAN JR.**—Protects seeds against rotting, permits earlier planting, speeds up and increases germination, controls seedling blight, invigorates seedling growth, produces sturdier plants, reduces root and stalk rots, decreases down corn, improves ear and fodder quality, increases crop yields. See page 36. Special booklet on request.

**OUR OREGON GROWN ACCILMATED FIELD CORN WILL PLEASE YOU**

## SEED OATS

When fancy, clean, heavy yielding oats are to be had at our reasonable prices it is poor policy to buy and plant common stock of unknown qualities simply to save a few dollars at planting time. We advise our customers to pay enough to get recleaned, true stock of varieties known to produce big and profitable returns.

If you can't afford to buy enough to sow all your fields, get a start by planting an acre or two to save for seed stock and start this year. Prices subject to market changes.

**SHADELAND CLIMAX.**—This grand oat belongs to the tree or branching class, and is a vigorous, healthy grower of strong stooling qualities. This is one of the heaviest yielding oats introduced to date. It does not produce much straw, but the yield of "thin hulled," plump, heavy grain, even on high, dry land, is amazing. For early spring planting, large yield and quick maturity, Climax is a winner. If you live west of the Cascade Mountains you can plant "CLIMAX" fall or spring, any time the ground is fit, but where the climate is severe, spring plantings are best.

Prices: Per bu., \$1.25; 100 lbs., write. By mail, postpaid, 4 lbs., 50c.

Write for quantity price, stating amount wanted.

**SHADELAND ECLIPSE.**—"ECLIPSE" is generally classed as a spring oat and is one of the best white side oat grown. Eclipse is enormously productive, early, very vigorous, and produces massive heads filled with medium size plump grains. "Eclipse" has been awarded many prizes. Can be safely planted in the fall as it is very hardy.

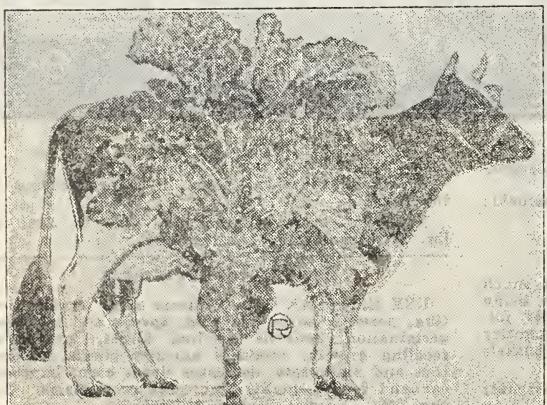
Prices: Per bu., \$1.25; 100 lbs., write. By mail, postpaid, 4 lbs., 50c.

Write for quantity price, stating amount wanted.

**GRAY WINTER.**—Gray Winter Oats are very hardy, and are generally used for fall sowing, and are especially useful for sowing with vetch. The straw grows very long, is stiff and not liable to lodge. It is a head oat. The grain is dark gray, large and plump, and it yields well.

Prices: Per bu., \$1.00; 100 lbs., write.

**WHITE SEED OATS.**—Aside from the named varieties of fancy seed oats above, we can supply White Valley Oats at market price for fancy recleaned stock. Write for prices when ready to buy, stating quantity wanted or order at \$1.00 per bu. and we will ship full value more or less according to market.



Thousand-Headed Kale

This cut is from photo, and gives you a good idea of the size and plant when well grown. . .

Ore., March 11, 1929.

Routledge Seed & Floral Co.  
Portland, Oregon

Dear Sirs: Am enclosing check with order for seeds. Can say I have tried them before and found them to be better even than advertised.

Sincerely,  
MRS. J. E. WILLITS.

## Speltz—Emmer

Sow in the spring, the same as wheat, at the rate of two bushels per acre. Cut when the grain is past the middle stage of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. Can be fed whole, rolled like barley, or ground.

Prices: 10 lbs. 75c; 100 lbs., write; lb., postpaid, 20c; 3 lbs., 50c.

## Seed Wheat

Prices subject to market changes. Will send full value of money sent or quote prices on request for prompt acceptance.

**Chicken Lettuce.**—It is great for green feed.—See page 21.

## Thousand-Headed Kale

JERSEY KALE—COW KALE.

Recommended by agricultural colleges, grangers and dairymen as one of the most valuable green forage plants for the Pacific Coast.

It grows rapidly and produces a mass of large, thick, curly green leaves, rich and succulent, which are eagerly eaten by stock and poultry. If planted early will produce valuable green feed during the dry summer months. Makes the most rapid growth if sown in the early spring, but locally it is extensively planted in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow. Under good cultivation plants will grow from 5 to 6 feet high. Sow 2 to 3 lbs. per acre, thinly in drills 2 to 4 feet apart and thin out. For late planting (July and August) it is better to have strong plants from earlier seeding and set out same as cabbage, 2 feet apart, in rows. Thin out later if plants attain extra large size.

### EXTRA SELECT SEED

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 60c,  
postpaid.

## Sunflower

**MAMMOTH RUSSIAN.**—The best variety to grow for the seed or silage. Planted in or around the poultry runs they make a good shade during the hot summer days and at the same time produce a valuable feed.

Cultivation same as corn. For silage sow 12 to 20 lbs. per acre; for seed purposes, give more space to mature heads, 5 lbs. per acre. Heavy, recleaned seed, high germination.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 40c; 10 lbs. \$3.00, postpaid. Write for quantity price.

## Kaffir Corn

An excellent fodder plant. Seed small and almost round, valuable poultry and pigeon food. It does best sown thinly in drills three feet apart.

10 lbs. \$1.00; per lb., postpaid, 25c

## Rape, Dwarf Essex

We offer you true, pure seed. One of the best forage plants, on account of the large amount of green feed it will produce at a season of the year when everything else is dried up. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily. Rape will do well on almost any soil. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre, three pounds, in drills; or if broadcast, five pounds.

10 lbs. \$1.25; 100 lbs., write; per lb., postpaid, 25c

## Seed Rye

When ready to buy Fall or Spring Rye Seed, write us for quotations on quantity wanted or send in your order and we will give full value.

10 lbs., 60c; 100 lbs., write; per lb., postpaid, 20c; 3 lbs. 50c

## Sugar Cane or Sorghum

A valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre.

10 lbs., \$1.25; 100 lbs., write; per lb., postpaid, 25c

## Vetches

**NOTE.**—All Vetch is scarce and higher than usual. Buy early if you need any.

**OREGON VETCH** (*Vicia Sativa*).—Oregon's greatest forage plant. Often called Fall Vetch. Grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon Coast. It furnishes an abundance of excellent feed, either green or dried. The seed is generally mixed with wheat, oats or rye, having a stiff straw to hold it up. Sown alone 85 pounds, or 60 pounds with a bushel of grain, per acre. Sow in the fall or early spring.

Prices: 10 lbs. \$1.00; 100 lbs., write; per lb., postpaid, 20c.

**HUNGARIAN VETCH.**—Becoming more popular each year on account of its strong, healthy growth. Its aphis resistance is probably the largest single factor toward making it a more generally grown vetch in Western Oregon.

It's a heavier yielder, both in hay and seed, than any other vetches grown here under similar conditions.

Prices: 10 lbs. \$1.00; 100 lbs., write; per lb., postpaid, 20c

**HAIRY SAND OR WINTER** (*Vicia Villosa*).—This variety thrives on poor, arid, sandy soils. It is sown in the fall or spring, mixed with rye, which serves to support the plants. Sow 20 pounds per acre.

Prices: 10 lbs. \$2.00; per lb., postpaid, 40c; 100 lbs., write.

## Read About "Semesan"

Seeds, tubers and roots treated with Semesan has given wonderful crops. Read page 36 and send for booklets.

Single pound prices are prepaid but 10, 50 and 100-pound prices are NOT prepaid and subject to market changes. See notes, page 41. For amount of seed to sow per acre see table, inside back cover.

## Millets

Sow in April, May or June, 20 pounds for seed or 35 pounds for hay per acre. Must be sown early to mature in Willamette Valley.

**EARLY FORTUNE.**—This variety seems to do extra well here; try it. Heads large and loose, and seed is amber red and three times as large as the Common Golden. Makes good poultry feed.

10 lbs. \$1.25; 100 lbs., write; per lb., postpaid, 25c.

**LIBERTY (German).**—An improved variety yielding a larger crop of seed than the Common Millet; it is also taller than the Common Golden, and yields a heavier crop of hay. Seed small, golden yellow.

10 lbs., \$1.25; 100 lbs., write; per lb., postpaid, 25c.

For  
SEED POTATOES  
See Page 25



Vetches

## THE WISE ONES

Will treat their Vetch seed with McQueen's Inoculator before sowing. There is no question about its VALUE. See page 39.

## Get Rid of Rats

**RAT SCENT.**—A perfect rat poison all ready to use. Dogs and cats won't eat it but rats and mice will take it in preference to any other food.

Price: 8-oz. can 35c.



Our flower seeds are grown by specialists and are unsurpassed. The following list contains a general assortment of the choicest and most popular and easiest grown flowers for conservatory, greenhouse or garden culture.

## HOW TO RAISE FLOWERS SUCCESSFULLY FROM SEEDS

The above is the title of a two-page leaflet we have issued for our customers. It tells HOW, WHEN and WHERE to plant. It is free to all. You will find it of great value.

IF YOU WILL MEMORIZE the following definition of the flower classes THEY WILL HELP YOU WONDERFULLY in the selection of seeds and your garden work in general.

### ANNUALS

These grow from seed, flower, mature their seed, and die in one year, or in other words, the same season.

Half-Hardy Annuals are those which should be started early in the house, conservatory or hotbed, and transplanted to the garden in settled warm weather.

Hardy Annuals are those which can be sown in the open ground in early or late spring, or started inside and transplanted if very early flowers are desired.

### BIENNIALS

These grow from seed, sown from June to August, flower, ripen their seed and die the next year, though some varieties bloom the same season if sown early in gentle heat.

Hardy Biennials will winter in the open ground without protection.

Half-Hardy Biennials require the protection of a cold-frame or cool-house during the winter.

### PERENNIALS

These grow from seed, and continue flowering annually for many years after the first season. Some varieties flower the first season if started very early. Sow in the fall for early flowers next year.

Hardy Perennials can remain in the open ground during winter without protection.

Half-Hardy Perennials require the protection of a cold-frame or cool-housing during winter.



### ARCTOTIS

New from Southwest Africa

**GRANDIS.**—Handsome annual, easily grown from seed sown in hotbed or later in the garden. Grows 2 to 3 feet high and produces a profusion of large showy flowers on long stems from July to frost. Excellent for cut flowers as they are very lasting. Flowers white with a blue center, edged gold. The reverse of petals are lilac-blue, buds lilac. Can be cut in bud and every one will open in a sunny window.

Pkt. 10c; 1/2-oz. 25c

### ACROCLINIUM

Hardy annual, with everlasting flowers; good for cutting; flowers double and dry nicely if cut in bud; 1 foot; July to October.

Album.—Double, white Pkt. 10c; 1/2-oz. 25c  
Mixed.—Double all colors. Pkt. 10c; 1/2-oz. 25c

### AGERATUM

Half-hardy annuals, especially well adapted to edge large beds of geraniums, salvia, coleus or cannae, flower continuous through the summer; 15 inches.

**DWARF LITTLE BLUE STAR.**—New; one of the handsomest blue-flowered dwarf edging plants; grows 5 inches high, and is just covered with small, bright blue flowers. Pkt. 15c; 1/2-oz. \$1.00

### AGERATUM MEXICANUM.—(15 inches).

Blue.—Sky blue	Pkt. 10c; 1/4-oz. 50c
Album.—Pure white	Pkt. 10c; 1/4-oz. 50c
Finest Mixed.—All colors.	Pkt. 10c; 1/4-oz. 40c

### ALYSSUM

Pretty little plants for beds, vases, baskets, edgings or rockwork, blooming profusely all summer; useful also for winter flowering inside. Very sweetly scented.

**SWEET ALYSSUM.**—Pure white; 6 inches; June to November. Pkt. 10c; oz. 50c

**LITTLE GEM.**—The dwarfest and best for design bedding; plants very compact and bushy, and grow only 3 to 4 inches high.

Pkt. 10c; 1/4 oz. 30c

**LILAC QUEEN.**—Dwarf, compact, lilac flowers.

Pkt. 10c; 1/4 oz. 35c

**PROCUMBENS (Carpet of Snow).**—A new and very select strain, carefully selected. Plants very spreading and only about 2 inches tall. Blooms are massed, completely hiding all foliage.

Pkt. 15c; 1/4 oz. 35c

**SAXATILE COMPACTUM (Gold Dust).**—Hardy perennial; yellow flowers; April to June; height 9 to 12 inches. (Plants, page 73.)

Pkt. 10c; 1/4 oz. 40c

## ASTERS

One of the easiest and most satisfactory summer and fall flowers to grow. We take the utmost pains to select seeds from the most perfect flowers only, and wish to assure our patrons that our strains are the superiority of perfection.

### IMPROVED GIANT CREGO

The most beautiful and desirable aster we have ever seen; very hardy, free-flowering and one of the best for general planting; the plant is a strong, healthy grower, and will produce 12 to 15 long-stemmed flowers of the most graceful and pleasing style (see cut). With ordinary care you can grow flowers measuring 5 to 6 inches across. Most of the handsome large aster blooms you see in the Portland flower stores are of this kind.

Pure White, Shell Pink, Rose Pink, Purple, Crimson, Lavender or Mixed. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

**SPECIAL.**—One packet each of the six colors above only 50c.

### CALIFORNIA GIANTS

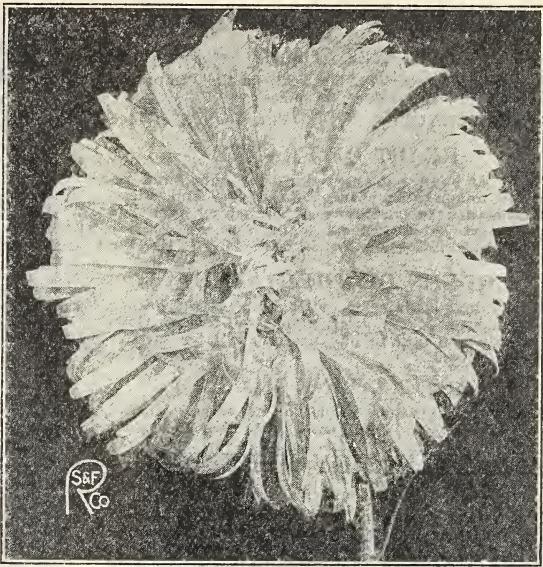
A new variety of real merit. Of immense size and beauty, long, sturdy stems, non-lateral type. Resemble the "Crego" in type of flower, but larger and more robust.

White, Peach Blossom, Light Blue, Deep Rose, Dark Purple or Finest Mixed. Pkt. 15c;  $\frac{1}{4}$  oz. 60c

### SUPERB AMERICAN BRANCHING

This superb strain, of American origin, is especially adapted to our climatic conditions, and unsurpassed. The plants form strong, branching bushes, 2 to  $2\frac{1}{2}$  feet high, bearing on long, strong stems their handsome large full flowers. (See cut.)

White, Shell Pink, Rose Pink, Lavender, Crimson, Azure Blue, Dark Blue, or Finest Mixed. Pkt. 10c;  $\frac{1}{4}$  oz. 60c



Improved Giant Crego Aster

### Single Elegans

**CHINA ASTER.**—A hardy annual variety producing freely beautiful single flowers on long slender stems. Flowers about  $2\frac{1}{2}$  to 3 inches wide, and come in most all colors.

Elegans Single Mixed. Pkt. 10c;  $\frac{1}{8}$  oz. 35c

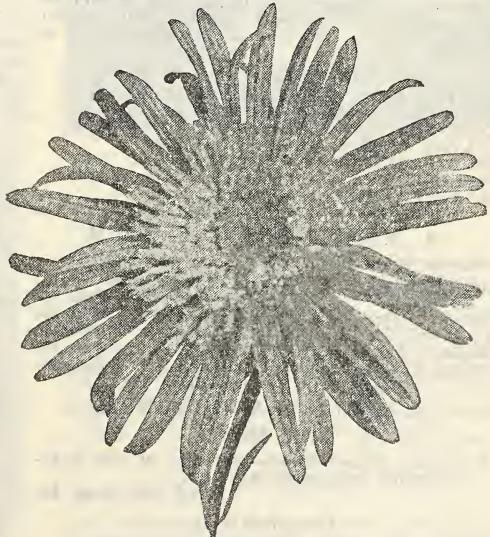
### THE SUNSHINE

**IMPROVED ANEMONE (Flowered).**—One of the most attractive novelties. The lovely 3 to 4-inch single flowers have twisted and quilled petals; the beautiful cushion center is of contrasting colors. Long stems, excellent for cutting (2 $\frac{1}{2}$  feet). Be sure and try it.

Blue, Lilac, Pink or White.  $\frac{1}{8}$  oz. \$1.00; Pkt. 25c Sunshine Mixed, all colors.  $\frac{1}{8}$  oz. 75c; Pkt. 20c



Superb American Branching



New Sunshine Aster

ASTER PLANTS and all popular annual bedding plants supplied in season. Write for general price list. Crego Aster plants, 50c doz. postpaid.

## ASTERS — Continued

### GIANT COMET

A well known variety, but with us the "Improved Giant Crego" has taken its place.

FINEST MIXED.—

Pkt. 10c;  $\frac{1}{4}$  oz. 40c

### HEART OF FRANCE

Heart of France opens red as the ruby, and retains its remarkable beauty to the very end. Flowers large and full. Plants of branching type and very robust habit. Stems long.

Pkt. 15c;  $\frac{1}{4}$  oz. 50c

### QUEEN OF THE MARKET

Most valuable for early cutting; the plants branch freely and produce a great many well-formed flowers nearly a month in advance of the later sorts. Finest Mixed.

Pkt. 10c;  $\frac{1}{4}$  oz. 35c

### ASTERS, FINE MIXED

A mixture of choice kinds for all season blooms.

Pkt. 10c;  $\frac{1}{4}$  oz. 50c

### ASTERS, HARDY PERENNIAL

(Michaelmas Daisies)

One of the showiest of our late-flowering perennials, giving a wealth of bloom during September and October. They grow freely in any soil. If sown early they will flower the first season. 3 to 4 feet. Excellent for cutting. They come only in lavender and dark shades.

Large Flowering Varieties.—Seed saved from the choicest flowers only. Pkt. 10c;  $\frac{1}{4}$  oz. 75c

### ANTIRRHINUM

(Snapdragon)

Among the most popular bedding plants; the richness and diversity of their colors, their great freedom and protracted blossoming season giving them great value for garden color masses, as well as for cutting. Bloom from July to frost. Half-hardy perennials, 1½ to 3 feet. (See cut.) Plants, page 72.)

### A. MAXIMUM

This wonderful new group of Antirrhinums far surpass anything yet introduced. The flowers are of magnificent size, closely placed on tall, graceful spikes, 3½ feet. We offer six beautiful colors, as follows:

Your Choice, 15c pkt.;  $\frac{1}{4}$  oz. \$1.00.

COPPER KING.—Velvety scarlet, shaded copper.

DIAMOND.—Golden yellow, lilac throat.

OLD GOLD.—A rich deep golden color.

SILVER QUEEN.—Beautiful rosy pink.

SNOWFLAKE.—Pure white, yellow tube.

WALLFLOWER.—Brownish orange, copper red.

MAXIMUM MIXED.—A lovely mixture. Pkt. 10c  $\frac{1}{4}$  oz. 75c

### A. NANUM GRANDIFLORUM

Tall flowers, medium height, about 2 feet.

Queen of the North.—Long spikes; pure white; superb. Pkt. 10c

Defiance.—Orange scarlet, white tube. Pkt. 10c

Firebrand.—Beautiful, bright scarlet. Pkt. 10c

Daphne.—Pearly pink. Pkt. 10c

Golden Queen.—Rich pure yellow. Pkt. 10c

$\frac{1}{4}$  oz. Any Variety Above 40c

### A. MAJUS GRANDIFLORUM

Tall Mixed

Tall Giant, Finest Mixed.—Our seed of this is exceptionally fine; height 3½ feet.

Pkt. 10c;  $\frac{1}{4}$  oz. 35c

Dwarf Mixed

Semi-Dwarf.—Fine for bedding; 24 inches. Pkt. 10c  $\frac{1}{4}$  oz. 35c

Finest Mixed. Pkt. 10c  $\frac{1}{4}$  oz. 35c



Antirrhinum Maximum

### ANEMONE

(Windflower)

ST. BRIGID.—Double and semi-double flowers in a wonderful array of colors. Perennial, 1 foot. Pkt. 15c

FRENCH MIXED (Chen).—Beautiful single and semi-double flowers in all colors. Pkt. 15c

### ASPARAGUS

PLUMOSA NANUS.—A graceful pot plant for either house or conservatory (see illustration under Fern Plants); very finely cut, delicate lace-like foliage. Pkt. 25c; 100 seeds \$1.00

SPRENGERI.—Drooping foliage; adapted for hanging baskets or cutting. Pkt. 10c; 100 seeds 5¢

### AMARANTHUS

CAUDATUS (Love-Lies-Bleeding).—Hardy annual; ornamental foliage plant; fine for bedding; green foliage with long drooping crimson racemes; 2 ft. Pkt. 10c;  $\frac{1}{4}$  oz. 35c

CRUENTUS (Prince's Feather).—Dark red foliage and feathery flowers; 2 feet. Pkt. 10c;  $\frac{1}{4}$  oz. 35c

TRICOLOR (Joseph's Coat).—Ornamental; for foliage only; red, yellow and green. Pkt. 10c;  $\frac{1}{4}$  oz. 50c

## ARABIS

(Rock Cress)

**ALPINA.**—Hardy perennial; pure white flowers in close head; excellent for edging, rockwork or dry situations; 6 inches; April to June.

Pkt. 10c;  $\frac{1}{2}$  oz. 50c

## AQUILEGIA

(Columbine)

Hardy perennials; are most elegant plants and invaluable for cutting or as hardy border flowers; beautiful and graceful; June to September. 2 to 3 feet. (See cut.)

**LONG SPURRED.**—Superb mixture of all the most desirable shades. Pkt. 15c;  $\frac{1}{2}$  oz. \$1.00

**SINGLE, FINEST MIXED.** Pkt. 10c;  $\frac{1}{2}$  oz. 60c

**DOUBLE, FINEST MIXED.** Pkt. 10c;  $\frac{1}{2}$  oz. 60c

**CHRYSANTHA.**—Golden yellow. Pkt. 15c;  $\frac{1}{2}$  oz. \$1.00

**COERULEA.**—Violet blue and white. (Rocky Mountain Columbine.) Pkt. 15c;  $\frac{1}{2}$  oz. 75c

**NIVEA GRANDIFLORA.**—A beautiful, large, pure white. Pkt. 10c;  $\frac{1}{2}$  oz. 40c

FOR PERENNIAL PLANTS SEE PAGES 73-75.

## AUBRIETA

(Rainbow Rock Cress)

A beautiful dwarf rock plant covered with sheets of bright flowers in spring and summer.

**HYBRID MIXED.**—Large flowering. Pkt. 15c

## BALSAM

(Lady Slipper)

Hardy annual, succeeding best in sunny situation, rich loam and moisture; very showy and of easy culture; 1½ feet; July to September.

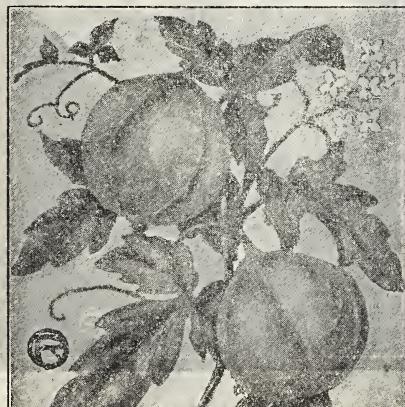
**PRIZE MIXTURE.**—This strain will produce the most perfectly formed double flowers in the greatest variety of colors. Pkt. 10c;  $\frac{1}{2}$  oz. 50c

BABY BREATH.—See Gypsophila, page 55

## BROWHALLIA

An old favorite, hardy annual, profuse bloomer, covered with pretty single flowers all summer and fall; grows about 1 foot tall.

**ELATA MIXED.**—Blue and white mixed. Pkt. 10c  
**SPECIOSA MAJOR.**—Ultramarine blue. Pkt. 25c



Balloon Vine

## BALLOON VINE

(Love-in-a-Puff)

A rapidly growing annual climber; succeeds best in light soil and warm situations; flowers white; seed vessels look like miniature balloons and of great interest to children; 8 to 10 feet (see cut).

Pkt. 10c;  $\frac{1}{2}$  oz. 25c

## BELLIS

(Double English Daisy)

Popular spring and summer flowering perennial; fine for borders; height 4 inches. Easily raised from seed. Blooming season from April to September.

**DOUBLE MIXED.**

Pkt. 10c;  $\frac{1}{2}$  oz. 50c

**LONGFELLOW.**—Double pink flowers. Pkt. 25c

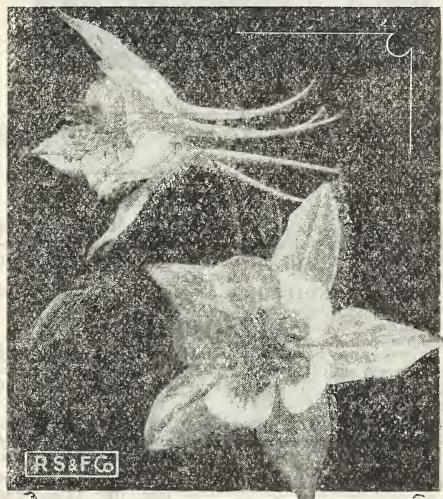
**SNOWBALL.**—Free flowering; pure white. Pkt. 15c

**GIANT ROSE, WHITE OR MIXED.**—Mammoth in size; very rare. Give them rich ground. Pkt. 20c

## BEAN

**SCARLET RUNNER.**—The well-known, rapid-growing annual climber, with bright red flowers, from July to September; height 3 feet.

Large Pkt. 10c; oz. 20c



Aquilegia—Long Spurred

## CALENDULA

(Pot Marigold)

Hardy annual; one of the most desirable garden flowers. The flowers are freely produced on long stalks; large, with flat, spreading rays; very showy; flowers the entire season; 12 to 18 inches. Excellent for cutting, beds or borders.

**DOUBLE, FINEST MIXED.**—Pkt. 10c;  $\frac{1}{2}$  oz. 25c

**LEMON QUEEN.**—A select strain, large double flowers, sunflower yellow. Pkt. 10c;  $\frac{1}{2}$  oz. 25c

**ORANGE KING.**—Grandiflora.—An excellent strain, large double flowers, rich dark orange. Pkt. 10c;  $\frac{1}{2}$  oz. 35c

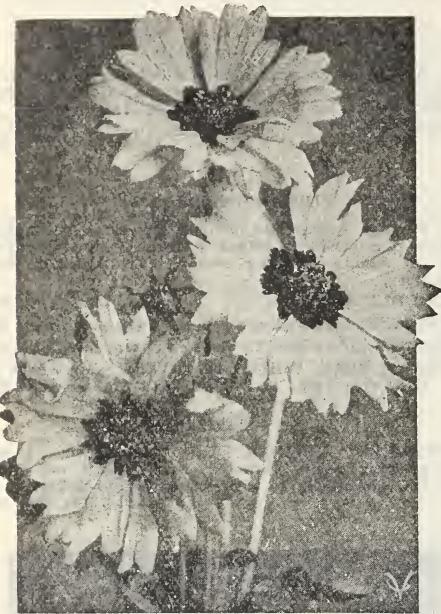
## CANARY BIRD VINE

A rapid-growing summer-climbing annual, 10 to 15 feet; it will cover trellis work in the most graceful manner, producing hundreds of pretty winged, bright yellow flowers.

Pkt. 10c;  $\frac{1}{2}$  oz. 35c

Perennial Flowers are rapidly gaining in favor. 1 year by buying our field-grown plants. See pages 73 to 76.

They are lasting and flower each year. You gain



Calliopsis

**CASTOR OIL BEAN.**—See Ricinus, page 62.

### CALCEOLARIA

Tender annual, a universal favorite for house culture; produces a mass of beautiful puffed, pouch-like flowers of brilliant self-colors and spotted. Our strain of Calceolaria is very fine.

**HYBRID GRANDIFLORA.**—Mixed. Pkt. 25c

### CALLIOPSIS

Showy and beautiful free-flowering annuals, of the easiest culture, doing well in any sunny position, blooming all summer if cut often, excellent massing (see cut above).

**CROWN OF GOLD (Coronata Maxima).**—A splendid cut flower large, pure golden yellow. All season. Pkt. 10c;  $\frac{1}{4}$  oz. 35c

**GOLDEN WAVE.**—Yellow, with crimson-brown around the eye. Pkt. 10c;  $\frac{1}{4}$  oz. 25c

**CRIMSON KING.**—Rich, velvety crimson or garnet. Pkt. 10c;  $\frac{1}{4}$  oz. 30c

**ROUTLEDGE PRIZE MIXTURE.**—Showy new shades in all of the choicest varieties. Pkt. 10c;  $\frac{1}{4}$  oz. 50c

### CANNA

A beautiful, large-leaved, showy flowering plant. Seed must be soaked before planting and started in a hot-bed under glass. (For Canna Roots, see page 89.)

**GROZY'S HYBRIDS. MIXED.** Pkt. 10c oz. 50c

Ore., 1928.

Routledge Seed & Floral Co.

Gentlemen: I was so well pleased with your Sweet Pea Seeds last year I would like to repeat my order this year. Send your 1928 catalog.

Sincerely yours,  
MISS HELEN BERG.

**GREAT FOR FLOWER BEDS.**—Read page 38, which tells all about our new product, "H. Q." Sheep Manure.

### CAMPANULA

(Bellflower)

**PERSICIFOLIA (Peach Bells).**—One of the finest of perennial Bellflowers; grows 2 to 3 feet high; pendulant single flowers. Blue or White or Mixed. Pkt. 10c;  $\frac{1}{4}$  oz. 75c

**CARPATICA (Carpathian Hare-Bell).**—Especially good for edging or rockeries. (Plants, page 73.) Blue or White. Pkt. 10c;  $\frac{1}{4}$  oz. 75c

### CANTERBURY BELLS

(Campanula Medium)

Very ornamental garden plants of easiest culture; excellent for cutting; hardy perennial; 2½ feet high, producing upright, bell-shaped flowers of exquisite colors. (See Plants, page 73.)

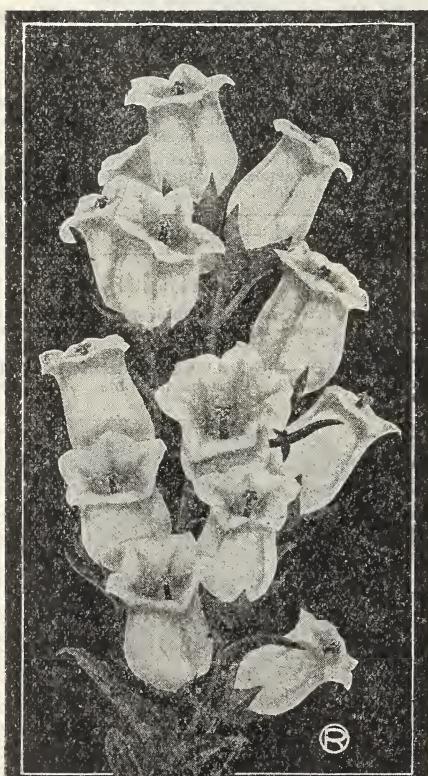
**MEDIUM SINGLE WHITE, BLUE, ROSE or MIXED** Pkt. 10c;  $\frac{1}{4}$  oz. 45c

**DOUBLE MIXED.**—All colors. Pkt. 10c;  $\frac{1}{4}$  oz. 50c

**CALYCANTHEMA (Cup and Saucer Canterbury Bells).**—Beautiful and popular variety. Calycanthesma.—Pink, Lilac, Blue or White. Pkt. 15c; 2 for 25c;  $\frac{1}{4}$  oz. 75c

Calycanthesma, Mixed Colors. Pkt. 10c;  $\frac{1}{4}$  oz. 60c

**R. R.'S PRIZE MIXTURE.**—A mixture which contains every color and kind of both single and double biennial and perennials. Pkt. 10c;  $\frac{1}{4}$  oz. 50c



Single Canterbury Bells

..

## CANDYTUFT

(*Iberis*)

Very popular free-flowering annual, fine for beds or cutting; 1 foot. June to frost if sown early and late.

**EMPEROR**.—A large-flowered variety of purest white; grown extensively for cut flowers; very desirable. Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

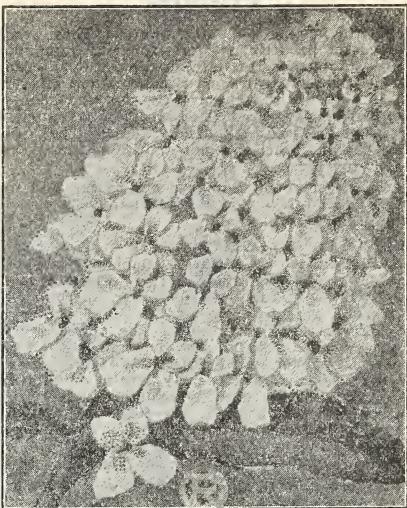
**PINK, CRIMSON OR LAVENDER**.—Very desirable colors; your choice. Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

**FINEST MIXED**.—All colors. Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

**DWARF WHITE LITTLE PRINCE**.—Grows but 6 inches high and throws up strong trusses of pure white flowers; excellent for edging or bordering. Pkt. 10c;  $\frac{1}{4}$ -oz. 40c

**SEMPERVIRENS**.—Perennial; pure white flowers, evergreen foliage; blooms in June; fine for edging, borders and rockeries; 1 foot.

Pkt. 15c; 1-16-oz. 35c



Candy Tuft—Empress

## CARDINAL CLIMBER

A beautiful and brilliant climber. It is a strong and rapid grower, attaining a height of 25 feet with beautiful fernlike lacinated foliage and literally covered with a blaze of fiery red flowers from mid-summer to frost. The flowers are about 1 inch in diameter and are borne in clusters of 5 to 7 blooms each. Like all "Ipomoeas," it delights in a warm, sunny situation and good, rich soil. The seed should be soaked in water a few hours before sowing and not planted outside until about May 1. (Annual.)

Pkt. 15c; 2 Pkts. 25c;  $\frac{1}{4}$ -oz. 75c

## CARNATION

Everyone loves Carnations. For started plants of the finest named varieties, see page 71.

**MARGARET CARNATIONS**.—The earliest to bloom and producing large, double, sweet-scented flowers; being half-hardy perennials, if they are slightly protected during the winter they will survive and flower profusely the next spring.

**Red or White**.—Large flowers.

Pkt. 15c;  $\frac{1}{4}$ -oz. \$1.00

**Choice Mixed**.

Pkt. 10c;  $\frac{1}{4}$ -oz. 60c

## CELOSIA CRISTATA

(Cockscomb)

Showy, half-hardy annuals of easy cultivation; 1 foot; producing large, brilliant, comb-like flower heads.

**GLASGOW PRIZE**.—Showy, dark crimson comb.

Pkt. 10c;  $\frac{1}{4}$ -oz. 60c

**FINEST MIXED**.—Rich mixture of finest dwarf kinds.

Pkt. 10c;  $\frac{1}{4}$ -oz. 40c

### Celosia Plumosa

(Feathered Cockscomb)

The plant grows 2 to 3 feet, is of handsome pyramidal form, and the numerous massive plumes, which resemble an ostrich feather waving gracefully above the foliage, make it one of the most effective; of easy culture. Half-hardy annual.

**THOMPSONI MAGNIFICA**.—The most perfect feathered variety. July to November.

**Golden Plume** ..... Pkt. 10c

**Crimson Plume** ..... Pkt. 10c

**Finest Mixed** ..... Pkt. 10c;  $\frac{1}{4}$ -oz. 60c

## CHRYSANTHEMUM

These are very showy flowers of easiest cultivation, flowering from July to frost; excellent for cutting; height 2 feet.

**SINGLE ANNUAL, MIXED**. Pkt. 10c;  $\frac{1}{4}$ -oz. 50c

**DOUBLE ANNUAL, MIXED** Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

For Perennial Chrysanthemum plants see page 71-73

We have Annual Flowering Plants in any quantity during April, May and June. The average price is 50c doz. postpaid. Complete price list on request.

## CERASTIUM

(Snow in Summer)

**TOMENTOSUM**.—A very pretty dwarf white-leaved edging or rock plant, bearing small white flowers. Hardy, perennial.

Pkt. 15c

## CINERARIA

(*Hybrid Grandiflora*)

We pride ourselves in offering the choicest strain of this gorgeous flower; grand, large blooms in umbel spikes are borne way above the foliage; colors and markings are superb; 1  $\frac{1}{2}$  feet; tender annual; start under glass, pot and keep inside

Pkt. 35c

## COSMOS

Beautiful autumn-blooming plants. They produce thousands of beautiful flowers, furnishing an abundance of cut blooms for autumn decorations. Can be sown in spring in the open ground, when danger of frost is past, or if wanted early the seed should be started under cover and afterwards transplanted. Set plants not less than 18 inches apart. They prefer a soil rather light and not too rich, but do well almost anywhere.

NOTE.—Too much fertilizer and water will make all foliage and few flowers. (Plants, 60c per doz., postpaid, in May.)

### Double Crested Extra Early

A new Cosmos of Merit. "Double Crested" is unique and exceedingly pretty. Flowers are of good size, with full double centers, surrounded by a row of graceful ray petals. Very dainty and attractive (see illustration). The plants are vigorous, branching and well covered with blooms from September until frost. We offer an improved, selected, extra early strain of this variety. Start early and transplant 2 feet apart. Rather poor, light soil, no fertilizer and little water will give earlier blooms. Pink Beauty, Crimson King or White Queen or Mixed.

Pkt. 15c; 3 for 35c;  $\frac{1}{4}$ -oz. \$1.00

**MAMMOTH EARLY FLOWERING.**—A grand improvement over the first early flowering Cosmos introduced. "Early Mammoth" will give you a profusion of very large, graceful, long-stemmed flowers that will come into bloom in July and last until frost if planted early and given good care.

Early White, Pink, Crimson or Mixed.

Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

**GIANT PERFECTION.**—Very large and perfect flowers often 3 to 4 inches across; plants 5 to 6 feet high. Blooms late.

Giant Mixed.

Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

**LADY LENOX.**—Giant flowers, free bloomer, flowers shell pink.

Pkt. 10c;  $\frac{1}{4}$ -oz. 25c



New Double Crested Cosmos

®

## CHINESE WOOLFLOWER

A new annual flower. Very showy, odd and novel. The bunches of wool-like glowing crimson flowers are produced in profusion. Flowers come early and do not fade until hit by frost. Height 2 to 3 feet. Start early and transplant after danger of frost is over. A large bed of these plants certainly produce a magnificent display.

Pkt. 10c;  $\frac{1}{4}$ -oz. 75c

## CLARKIA

This easily grown, hardy annual has been much improved in recent years, and the varieties offered below are now seen as cut flowers in most of the large cities. They do well either in sun or shade, growing 2 feet high, with leafy racemes of bright, pretty double flowers.

**SEPARATE COLORS.**—Double White, Crimson or Salmon Pink. Pkt. 10c;  $\frac{1}{4}$ -oz. 40c

**ELEGANS DOUBLE MIXED.** Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

## COREOPSIS

(*Lanceolata Grandiflora*)

Hardy perennial, with large, showy bright yellow flowers produced in the greatest abundance from June till frost. As a cut flower they stand near the head among hardy plants having long stems and lasting in good condition a week or more. Easily grown from seed, flowering the first year, if sown early under glass. (PLANTS, PAGE 73.)

Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

## COBaea SCANDENS

Our most popular and rapid climbing annual, flowering the first season. Pretty, bell-shaped flowers appear in great profusion during the fall months; foliage very graceful; 10 to 15 feet. Start seed under glass. (PLANTS FROM POTS IN MAY, 25c EACH.)

Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

## CYPRESS VINE

A fast-growing annual vine, with feathery dark-green foliage and star-like flowers, July to October; 20 feet. Plant early in light soil and warm location.

FINEST MIXED.

Pkt. 10c;  $\frac{1}{4}$ -oz. 35c



Cobaea Scandens

## COLEUS

Beautiful foliage plants for house or garden. Easily raised if started early under glass. (Plants, page 68.)

**HYBRIDA CHOICE MIXED.**—Best strain. Pkt. 25c.

**CULTURAL DIRECTIONS FREE.**—Our 2-page leaflet gives full instructions on growing flowers from seed. Free on request. Read it and be successful.

**DELPHINIUM**

(Perennial Larkspur)

(See cut, page 74. Handsome, hardy perennial plants for the herbaceous border and shrubbery, producing a profusion of splendid spikes of flowers throughout the summer. The beautiful, graceful, long-stemmed flower spikes make handsome bouquets and last well when cut. If started early will bloom the first season from seed. (For large plants for quick effect see page 74.)

**R. R.'s PRIZE MIXTURE.**—Superb Gold Medal collection of choicest hybrids; new, rare and beautiful shades. Wonderful for cut flowers and should be planted generously.

Pkt. 15c;  $\frac{1}{8}$ -oz. 75c

**BELLADONNA.**—Very free and continuous bloomer; delicate and beautiful; clear light blue, large flowers, 4 feet. Pkt. 25c;  $\frac{1}{8}$ -oz. \$1.25

**BELLAMOSUM.**—This is a rich, deep blue form of the popular light blue Belladonna, having the same free-blooming and other good qualities.

Pkt. 25c;  $\frac{1}{8}$ -oz. \$1.00

**CHINESE (Blue Butterfly).**—A distinct and neat variety growing about 18 inches high, with fine, feathery foliage, and producing freely spikes of large blossoms of intense gentian-blue.

Pkt. 15c;  $\frac{1}{8}$ -oz. 50c

**CARDINALE.**—Brilliant scarlet. Pkt. 25c

**New English Delphiniums****Wonderful Spikes of Rare Colored Giant Flowers**

The seed we now offer our customers is not direct from England, but superior; it's Oregon grown, acclimated and high in germinating power; gathered from only the "cream" of over a hundred named kinds by our grower, who has specialized for years on Delphiniums, devoting most careful attention to trying out "various" prize-winning, world-famous varieties. Every plant that cannot stand a rigid test for vigorous, healthy growth, perfection and giant size and beauty of flower is pulled up and destroyed so as to leave only the choicest, rarest and most charming, from which our seed has been carefully hand picked and blended. We offer it as

**ROUTLEDGE'S PRIZE WINNING ENGLISH GIANTS MIXED.** Pkt. 100 seeds, 50c; 3 pkts, \$1.25.

**WING'S DELPHINIUMS.**—A superb giant strain of Blackmore and Langdon's and Wrexham varieties grown by Wing's Delphinium Gardens.

Pkt. 75c

**DIMORPHOTHECA**

(African Daisies)

**AURANTIACA.**—Its Marguerite-like blossoms, 2 inches in diameter, with a rich, glossy orange-gold conspicuous, dark colored disc; 12 to 15 inches.

Pkt. 10c;  $\frac{1}{8}$ -oz. 35c

**AURANTIACA HYBRIDS.**—These come in all colors, with different colored zones; rare shades, rich and interesting.

Pkt. 10c;  $\frac{1}{8}$ -oz. 25c**DAHLIA**

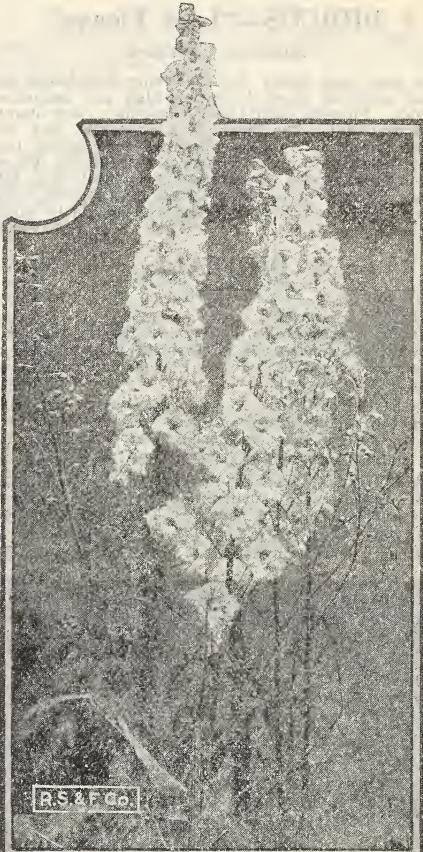
This very popular flower can easily be raised from seed; started inside in March, will produce flowers in August.

**CACTUS MIXED.**—Double flowers with pointed or twisted petals. Pkt. 25c

**DOUBLE FINEST MIXED.**—Produce flowers of the "Show" or "Decorative Class." . . . Pkt. 15c

**SINGLE GIANT PERFECTION.**—Single flowers of great size and beauty. Pkt. 10c

**DAHLIA BULBS.**—See pages 86-88.



English Delphinium

**DAISIES**

**SHASTA DAISY.**—Very popular and desirable perennial; the large single white flowers are freely produced on long stems. Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**DAISY PLANTS.**—See page 76.

**DIANTHUS—PINKS**

(Garden Pink)

All varieties listed below are very desirable. Sown out of doors in May, they flower early and continue throughout the entire summer; 1 foot.

**CHINENSIS (Chinese Pink).**—Large, double flowers in unlimited variety of bright colors.

Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**HEDDEWIGII (Japan Pink).**—Beautiful rich colors. A very popular variety.

Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**FIREBALL.**—New, extra double, brilliant dark scarlet; very beautiful. Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**SNOWDRIFT (Lancineatus).**—Extra large, pure white, double, fringed flowers. Fine for border. Pkt. 10c;  $\frac{1}{8}$ -oz. \$1.00

**PRIZE MIXTURE.**—Very rich mixture, all kinds. Unequalled. Pkt. 10c;  $\frac{1}{8}$ -oz. 75c

**SEMPERFLORENS (Perennial Hardy Everblooming Garden Pinks).**—Very beautiful sweet-scented, double, semi-double and single flowers in great diversity of colors. Pkt. 15c;  $\frac{1}{8}$ -oz. \$1.00

We sell Garden Hose, Tools and Supplies of all kinds. See Index.

**DIDICUS—“Lace Flower”****Hugelia Coerulea**

A rare and lovely free-flowering half-hardy annual, growing about 18 inches high and branching nicely. Flowers light blue or lavender, very dainty and beautiful. The bloom is a cluster of tiny petalled flowers, giving the appearance of dainty lace. Florists grow it under glass for cut flowers. Plants set in the garden bloom from June until late fall. A new flower here, but a native of Australia. The seed is very slow to germinate and should be planted early. (See cut.) Pkt. 15c;  $\frac{1}{2}$  oz. \$1.00

**DIGITALIS**

(Foxglove.)

Hardy perennials; very desirable for effective massing or grouping; invaluable either in the hardy border, between shrubs or in solid beds in open or shady places; 3 to 5 feet. For strong field-grown plants, see page 73.

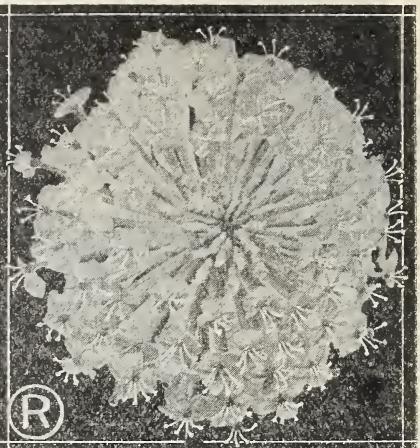
**GLOXINAEFLORA**.—A fine strain with handsome spotted gloxinia-like flowers.

White, Purple, Rose or Mixed. Pkt. 10c;  $\frac{1}{2}$  oz. 35c

**GRANDIFLORA YELLOW**. Pkt. 10c;  $\frac{1}{2}$  oz. 40c

**MONTROSA** (Mammoth Foxglove).—The tall spikes of flowers are surmounted by one monstrous bloom; all colors mixed. Pkt. 10c;  $\frac{1}{2}$  oz. 40c

**BEAUTY MIXTURE**.—A grand mixture of all kinds, colors and shades. Pkt. 10c;  $\frac{1}{2}$  oz. 50c



Didicus—Lace Flower

**ESCHSCHOLTZIA—Continued**

**NEW HYBRIDA GRANDIFLORA MIXTURE**.—This is a wonderful mixture of all the new colors and novelties in the erect large flowering Eschscholtzia. You will find a large percentage of soft pink, scarlet, copper-red, cream, claret, royal purple and other rich and rare tones.

Pkt. 15c; 2 for 25c;  $\frac{1}{4}$  oz. 40c

**CALIFORNICA**.—Bright yellow. Pkt. 10c; oz. 40c

**ALBA**.—Pure white. Pkt. 10c; oz. 40c

**CARMINE KING**.—A beautiful rose carmine. Pkt. 10c;  $\frac{1}{4}$  oz. 25c

**GOLDEN WEST**.—Very large bright yellow flowers with orange centers. Pkt. 10c; oz. 40c

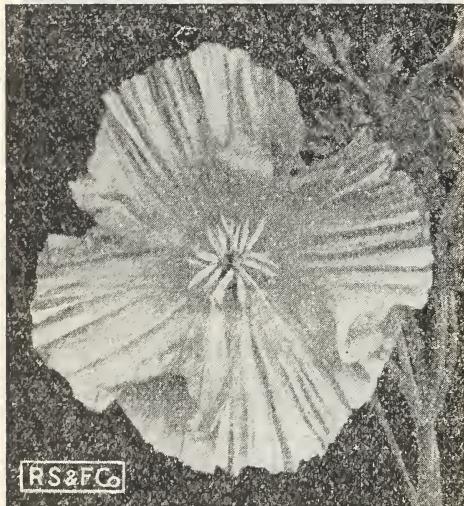
**FINEST MIXED**.—All shades. Pkt. 10c; oz. 40c

**ECHINOCYSTIS LOBATA**

(Wild Cucumber)

The fastest-growing annual vine in existence; will grow 20 feet in six weeks; pretty foliage and inconspicuous white flowers; soak seed in water over night before planting in dry weather.

Pkt. 10c; oz. 35c



Eschscholtzia Ramona

**ESCHSCHOLTZIA**

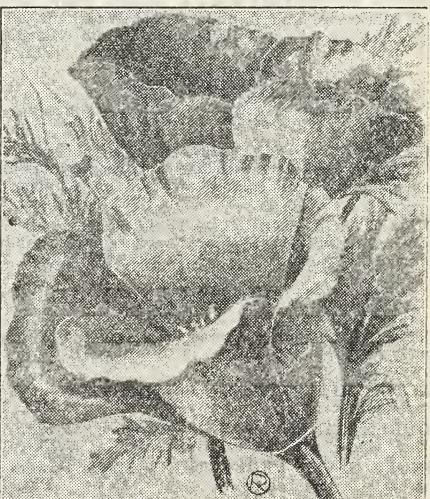
(California Poppy)

One of the most popular garden annuals; 1 foot. Sow the seed where plants are to remain in the fall or early spring. It stands considerable cold and blooms early, profusely and continuously until July. Later sowings for late flowers. (See cut.)

**RAMONA—New Frilled Type**

Among the many fancy varieties of Eschscholtzia introduced, Ramona, a mutation from The Geisha, stands out as a distinct and very charming type in the frilled class. It is a single, but the frills give it the appearance of a semi-double. The color is a pale but glittering coppery gold with pink shadings and very pleasing to the eye. This is an unusually attractive novelty which is well fixed.

Pkt. 20c;  $\frac{1}{2}$  oz. 75c



Eschscholtzia—California Poppy

**MORE HARDY FLOWERING SHRUBS** should be planted in the West—they give no trouble, increase in size and grow more beautiful year by year. See pages 98-102.



Gaillardia Portola

### GAILLARDIA (Blanket Flower)

Splendid, showy, free-flowering plants for beds or borders; excellent for cutting; the hardy perennial varieties; if sown early will bloom the first season, July to frost; 1½ feet. Field-grown plants, page 74.

**GRANDIFLORA SUPERBA.**—Hardy perennial, splendid mixed single varieties in crimson and gold. Pkt. 15c; ¼-oz. 40c

**LORENZIANA.**—Hardy annual; double flowers in red and yellow shades. Pkt. 10c; ¼-oz. 25c

**PORTOLA GRANDIFLORA HYBRIDS.**—This superb new strain of perennial Gaillardias give flowers of very large size, often 3 to 4 inches in diameter. The color ranges through shades of rich, bronzy red, shading to a border of golden yellow. Flower stems strong and upright. Robust and vigorous grower. Splendid new cut flower. Pkt. 20c; ½-oz. 75c

**THE DAZZLER.**—A giant in size. Flowers dark rich red with bright orange tips. Very attractive. Pkt. 25c

### GERANIUM

**ZONALE, MIXED.**—A superb strain of the largest and finest varieties. Should be started indoors and finest varieties. Pkt. 25c

### GYNERIUM (Pampas Grass)

**ARGENTEUM.**—Hardy perennial; the famous Pampas Grass, with beautiful silvery plumes; 10 feet. Pkt. 10c

### GEUM

**MRS. BRADSHAW.**—A beautiful and hardy perennial, bearing profusely showy double brilliant scarlet-crimson flowers all through the summer; a beautiful and popular flower for beds and borders; excellent for cut flowers. (For Plants, see page 74.) Pkt. 15c; ½-oz. 50c

**LADY STRATHEDEN.**—Same as above but golden yellow flowers. Pkt. 25c; ½-oz. \$1.00

**FEED YOUR PLANTS.**—You must supply "feed," in other words, fertilizer, if you want the best results. Read about "H. Q." Sheep, and Marvel Q. A. Fertilizer, pages 37-38

### GOMPHRENA

(Globe Amaranth)

A dwarf hardy annual, with pretty clover-like beads of purple, white and red flowers; 2 feet; flowers everlasting. FINEST MIXED.

Pkt. 10c; ¼-oz. 25c

### GYPSOPHILA

(Angel-Baby's Breath)

Pretty free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers. The annuals should be sown early in the spring, again in midsummer for a continuous supply.

**ELEGANS ALBA GRANDIFLORA.**—Hardy annual, easily grown from seed; flowers small, pure white; 2 feet; June. Pkt. 10c; ¼-oz. 25c

**"PARIS MARKET."**—**GRANDIFLORA ALBA.**—Improved variety of above with larger, pure white flowers; annual. Pkt. 10c; ¼-oz. 30c

**ELEGANS ROSEA.**—Hardy annual; flowers delicate pink. Pkt. 10c; ¼-oz. 35c

**ELEGANS CARMINEA.**—A deep carmine. Annual. Pkt. 10c; ¼-oz. 35c

**MURALIS.**—Hardy perennial; plants dwarf, about 6 inches; flowers shell pink; fine for borders or rock work. Pkt. 10c; ¼-oz. 25c

**PANICULATA.**—Hardy perennial; one of the finest for cutting; pure white flowers, very small, and borne in large, delicate sprays; June and July. Three feet. Pkt. 10c; ¼-oz. 25c

**PANICULATA. FL. PL.**—New, double-flowering. White. Pkt. 25c; 3 for 60c

(For strong roots of G. Paniculata for immediate effect, see page 74.)

### GODETIA

(Satin Flower)

This showy, hardy annual deserves greater popularity. Attractive flowers of satiny texture, from white to all shades of pink and crimson. They grow rapidly and flower profusely in poor soil, of easy cultivation. Fine for seashore or mountain resorts; 1 foot; July to October.

**DWARF WHITE, BRIGHT RED OR FINEST MIXED OR TALL DOUBLE MIXED.** Pkt. 10c; ¼-oz. 25c

### GOURLDS

These are desirable in many places where an immense amount of vine is wanted quickly. Most sorts are good for 20 feet in a season and the blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful.

**CALABASH.**—The famous pipe gourd, dipper shaped. Pkt. 10c; oz. 40c

**EGG, HERCULES DIPPER, DISH CLOTH, PEAR OR MIXED.**—All kinds. Pkt. 10c; ¼-oz. 15c

### HELIANTHUS

(Sunflower)

Hardy annual Sunflowers are indispensable for cutting and a bright display of yellow flowers in the garden. Plant early.

**CUCUMERIFOLIUS — STELLA** (Improved Miniature Sunflower).—Pretty single flowers of the purest golden yellow, with black disc. Fine for cutting. 3 feet. Pkt. 10c; ¼-oz. 35c

**NEW MINIATURE MIXED.**—Many have curiously twisted petals. The prevailing colors are pale yellow, golden yellow and creamy white, and all are beautiful; for cutting. Pkt. 10c; ¼-oz. 35c

**GLOBOSUS FISTULOSIS** (Globe or Dahlia Sunflower).—Flowers are large, double, very full in center and of a rich saffron color; 6 feet; annual. Pkt. 10c; ¼-oz. 25c

**PERENNIAL MIXED.**—A choice mixture of the best perennial varieties. . . Pkt. 15c; ¼-oz. \$1.00

## HELENIUM

Hardy perennials, bearing in profusion during summer and fall, beautiful flowers for display or cutting. (For plants, page 74.)

**AUTUMNALE SUPERBUM.**—Massive spreading heads of deep golden yellow flowers; 5 feet.

Pkt. 10c

**RIVERTON BEAUTY.**—Rich lemon-yellow with purplish black cone; 4 feet.

Pkt. 10c

**RIVERTON GEM.**—Old gold changing to wallflower red. Admired by all; 4 feet.

Pkt. 10c

## HELICHRYSUM

(Straw Flower)

**MONSTROSUM FL. PL.**—One of the best of "Everlastings." Make a fine display in the garden. Especially grown to dry and use in baskets and vases through the winter. When half open cut, strip off all leaves and hang head downward in a dark dry place until cured; plant 12 inches apart; hardy annuals; 2½ feet.

**FIREBALL, GOLDENBALL, SALMON QUEEN, SILVERBALL OR DOUBLE MIXED.**

Pkt. 10c; ½-oz. 35c

## HELIOTROPE

Delightfully fragrant, half-hardy perennial; popular pot and garden bedding plant; also for cutting. Some of the best plants may be raised from seed very readily; 1½ feet; start inside or under glass.

**FINEST MIXED.**

Pkt. 10c; ½-oz. 50c

**PLANTS** in May and June.

Each, 10c to 20c

## HUMULUS

(Japanese Hop)

Hardy annual climber; of rapid growth; attains a height of 12 feet.

**JAPONICA VARIEGATA.**—Foliage green and white; very pretty and effective; not affected with insects.

Pkt. 10c; ½-oz. 35c

**ENGLISH HOP ROOTS.**—Pg. 97.

Each 15c

## HOLLYHOCK

One of the most majestic of hardy plants, and a clump or line in any garden gives an effect not attainable with any other plant. For planting among shrubbery or forming a background for other flowers, it is without equal. Seed sown any time during late summer will produce fine plants for flowering the next year. (For 1-year plants, see page 74.)

**CHATER'S DOUBLE.**—Our superb strain of this is the best that can be produced; seeds saved from the most double flowers.

**WHITE, ROSE, CRIMSON, YELLOW, SALMON ROSE OR MIXED.**

Pkt. 10c; ½-oz. 75c

**NEWPORT PINK.**—New. The finest pure pink variety, exquisite in shade, flowers double.

Pkt. 15c; ½-oz. 40c

**ALLEGHENY.**—Semi-double; mammoth flowers, having the edges of the petals finely fringed and lacerated; will bloom the first year if sown early.

**CHOICEST MIXED.**

Pkt. 10c; ½-oz. 60c

**NEW ANNUAL EVER-BLOOMING.**—Seeds sown in the house in March will produce flowers in July on plants 4 feet high; however, the plants do not attain their perfection until their second year, when they grow 6 to 8 feet high, and flower continuously from June till frost.

**SINGLE MIXED.**

Pkt. 10c; ½-oz. 50c

**DOUBLE MIXED.**

Pkt. 15c; ½-oz. 75c

## HUNNEMANNIA

**FUMARIAEFOLIA** (Giant Yellow Tulip Poppy).—Hardy annual; foliage fern-like; flowers tulip-shaped, golden yellow; very showy; July to frost.

Pkt. 10c; ½-oz. 35c

## JOB'S TEARS

**COIX LACHRYMAE.**—Ornamental grass, producing curious seeds which are dried and used for beads. Annuals; 2 to 4 feet.

Pkt. 10c; oz. 20c

## KOCHIA

**SUMMER CYPRESS** or **BURNING BUSH.**—Annual; forms dense bushes of upright plumage like foliage; during the summer they remain light green and in early fall they change to carmine and blood red; 2 feet; make a dainty and showy hedge or nice single specimens.

Pkt. 10c; ¼-oz. 35c

## KUDZU VINE

*Pueraria Thunbergiana*

A twining vine of remarkably rapid growth, attaining a length of from 40 to 50 feet in one season from established roots; a hardy perennial, though the vine dies down every winter in the North. Foliage large and lobed; purple, pea-shaped flowers in clusters, borne late in the season. A fine vine for arbors, verandas, etc. Easily grown from seed.

Pkt. 10c; ¼-oz. 50c

## LATHYRUS LATIFOLIUS

**PERENNIAL SWEET PEA.**—Free flowering, hardy perennial climbers, bearing beautiful flowers all season.

**WHITE OR PINK.**

Pkt. 15c; ¼-oz. 75c

**MIXED.**

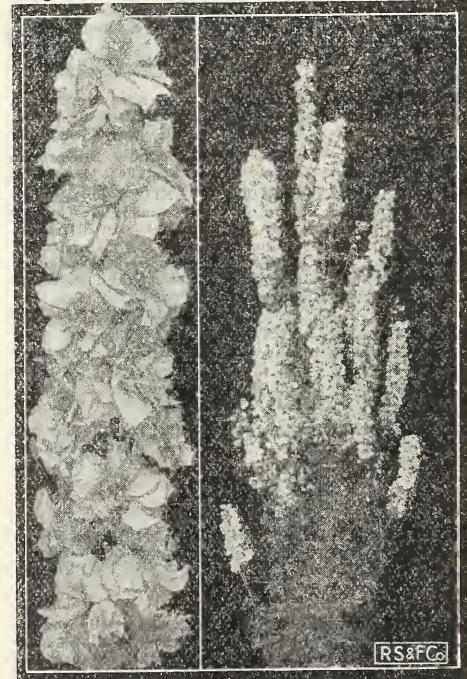
Pkt. 10c; ¼-oz. 50c

## LINUM

(Flowering Flax)

**GRANDIFLORUM RUBRUM** (Scarlet Flax).—One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers; hardy annual; 1 foot.

Pkt. 10c; ¼-oz. 25c



RS&FC

New Larkspur—La France  
(See next page)

PERENNIAL FLOWERS are rapidly gaining in favor. MORE should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. See pages 72-86.

## LOBELIA

Lobelia Plants in April and May at 50c doz. postpaid.

**ERINUS GRACILIS.**—Trailing, excellent for vases, hanging baskets and window boxes. Bright blue flowers. Pkt. 10c;  $\frac{1}{2}$ -oz. 35c

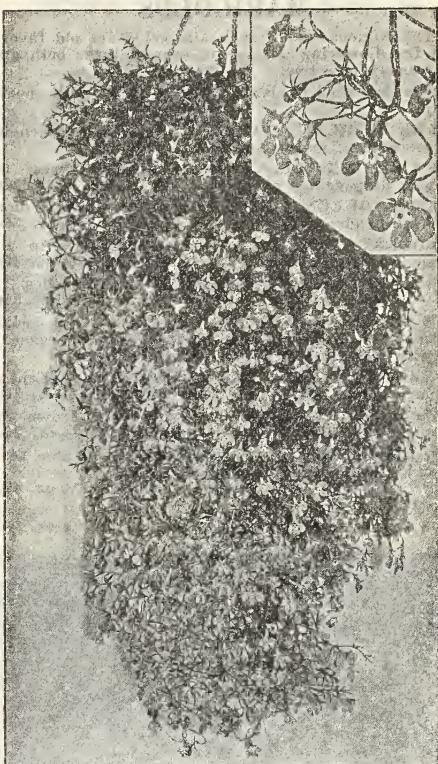
**SPECIOSA.**—Trailing, true dark blue flowers, with dark foliage. Pkt. 10c;  $\frac{1}{2}$ -oz. 40c

**HYBRIDA SAPPHIRE.**—A beautiful trailing Lobelia; very large, deep sapphire blue flowers, with a large and clear white eye; very free flowering; extra long trailer. Pkt. 15c;  $\frac{1}{2}$ -oz. 75c

**CRYSTAL PALACE COMPACTA.**—Little dwarf bedding plant; dark blue flowers cover the whole plant during the entire season; very compact and used extensively in carpet bedding or edging; height 4 inches. Pkt. 10c;  $\frac{1}{2}$ -oz. 50c

**WHITE GEM.**—Compact little plants, covered with snow-white flowers. Pkt. 10c

**CARDINALIS (Cardinal Flower).**—Hardy perennial garden plant, with spikes of deep cardinal red flowers; August and September; 8 feet. Pkt. 15c;  $\frac{1}{2}$ -oz. \$1.00



## LUPINUS

Ornamental, free-flowering, easily grown, with long, graceful, upright spikes of rich and variously colored pea-shaped flowers; valuable for mixed borders and beds.

**ANNUAL TALL MIXED.**—Valuable for cutting; 2 feet. Pkt. 10c;  $\frac{1}{2}$ -oz. 35c

**POLYPHYLLUS MIXED.**—Showy perennials, growing stout and erect; good for cutting, flowers in white, rose and blue colors; 3 feet; May and June. Pkt. 10c;  $\frac{1}{2}$ -oz. 35c

## LARKSPUR—Annual

Unsurpassed by any other hardy annual. Seed sown in the open ground in April or May will produce flowers from July to frost. Their free, graceful habit and lovely bright flowers are very effective for beds or borders. Charming cut flowers for decoration.

**TALL "DOULE STOCK" FLOWERED.**—The finest tall branching variety with splendid sprays of beautiful flowers; 3 feet.

**WHITE, PINK, LUSTROUS CARMINE, SKY BLUE, DARK BLUE, BRIGHT ROSE, or MIXED.** All colors, Pkt. 10c;  $\frac{1}{2}$ -oz. 50c

La France—New 1929

(See cut, opposite page)

**LA FRANCE** is the most striking color of all and without any question the most outstanding novelty for this season.

**LA FRANCE** is a most vigorous and tall grower, producing wonderful long stems of large-formed double flowers, of a pleasing shade of salmon-pink, a shade that will appeal to the most critical florist and flower lover. You will be more than pleased with this color. Seed supply limited. Pkt. 20c

**EXQUISITE.**—New, a beautiful soft pink. A charming new shade that is highly prized by florists. Pkt. 15c;  $\frac{1}{2}$ -oz. 35c

**TALL "HYACINTH" FLOWERED.**—The flowers are very large, double, and come in the most beautiful colors. The tall, handsome spikes of flowers are produced early in the season. Excellent for bouquets.

**FINEST MIXED.** Pkt. 10c;  $\frac{1}{2}$ -oz. 40c

**DOUBLE DWARF ROCKET.**—1 foot; compact growing bush, splendid spikes of double flowers in all colors.

**MIXED.** Pkt. 10c;  $\frac{1}{2}$ -oz. 40c

**EMPEROR.**—Slender spikes of exquisite double flowers in unlimited quantity and of delicate shades; 2 feet.

**MIXED.** Pkt. 10c;  $\frac{1}{2}$ -oz. 40c

**PERENNIAL LARKSPUR.**—(See Delphinium, page 53; plants, page 74.)

**GLADIOLI BULBS** make a beautiful display when in bloom and are of the easiest culture and really not expensive, as they multiply rapidly. See pages 82-84.

Trailing Lobelia—Sapphire

Our 2-Page Leaflet, "HOW TO GROW FLOWERS FROM SEED," Free on Request.

## LYCHNIS

**CHALCEDONICA.**—Hardy perennial producing bright scarlet flowers of maltese cross form, in medium size flat umbels, handsome for beds and borders. Of easy culture, blooming the first year if sown early. Very bright and showy; 2 to 3 feet. Pkt. 10c;  $\frac{1}{2}$ -oz. 30c

## MIGNONETTE

(Reseda)

A universal favorite; very fragrant; no home garden is complete without Mignonette. It needs a cool soil only moderately rich; grows 8 to 15 inches high and is treated as a half-hardy annual.

**GRANDIFLORA.**—Large-flowering, sweet, fragrant, spikes of greenish yellow color. Pkt. 10c; oz. 35c

**DEFIANCE.**—Giant spikes; flowers abundant and very fragrant. Pkt. 10c;  $\frac{1}{2}$ -oz. 25c

**GOLIATH RED.**—Excellent for pots or garden; highly colored. Pkt. 10c;  $\frac{1}{2}$ -oz. 35c

**WHITE PEARL.**—New; the best white flower; very attractive. Pkt. 10c;  $\frac{1}{2}$ -oz. 35c

## MIMULUS

**MOSCHATUS (Muskplant).**—A pretty trailing plant with small yellow flowers, giving forth a musk-like fragrance; fine for hanging baskets, etc. Annual. Pkt. 15c

## MARIGOLDS

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective.

Plants.—Choice plants in May at 50c doz. postpaid.

**TALL AFRICAN, DOUBLE.**—(See cut.) Splendid for cutting and decoration; 3 feet.

**ORANGE PRINCE.**—Enormous double flowers of rich deep golden orange. Pkt. 10c;  $\frac{1}{6}$ -oz. 25c

**LEMON QUEEN.**—Extra large double flowers of a clear canary yellow. Pkt. 10c;  $\frac{1}{6}$ -oz. 25c

**ELDORADO.**—Double flowers of large size in all shades of yellow. Pkt. 10c;  $\frac{1}{6}$ -oz. 40c

**TALL AFRICAN DOUBLE MIXED.**—All shades. Pkt. 10c  $\frac{1}{4}$ -oz. 35c

**DWARF FRENCH, DOUBLE.**—These form small, compact bushes about 12 inches high, covered with smaller but very rich colored flowers.

**DWARF GOLDEN BALL.**—Flowers ball-shaped, pure golden yellow. Pkt. 10c;  $\frac{1}{6}$ -oz. 30c

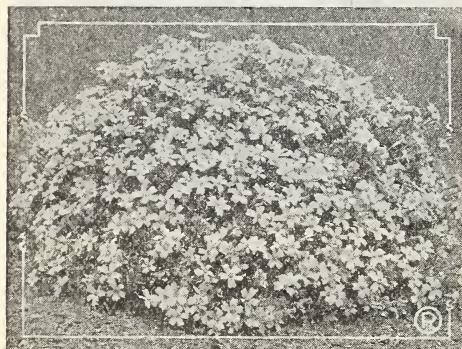
**DWARF DARK BROWN.**—Rich reddish-brown or mahogany; double. Pkt. 10c;  $\frac{1}{6}$ -oz. 35c

**DWARF STRIPED.**—Very double, mahogany red, striped with gold. Very attractive. Pkt. 10c;  $\frac{1}{6}$ -oz. 40c

**DWARF FRENCH DOUBLE MIXED.**—All shades in solid and striped colors. Pkt. 10c;  $\frac{1}{4}$ -oz. 35c



African Marigold



Signata Pumila

### Dwarf French Single

**LEGION OF HONOR.**—Golden yellow marked with velvety brown. Pkt. 10c;  $\frac{1}{6}$ -oz. 30c

**TALL FRENCH DOUBLE MIXED.**—2 feet.

Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

### New Dwarf Marigold

**SIGNATA PUMILA.**—A miniature marigold flowering, compact little plant, 6 to 8 inches high and completely covered with single flowers which are bright yellow with a brown stripe down the center of each petal. Very striking for edgings. Planted alone or with Lobelia for a contrast. (See cut.)

Pkt. 15c; 2 for 25c

## MYOSOTIS (Forget-Me-Not)

Few spring flowers are more admired than the lovely Forget-Me-Nots, which are especially effective when grown in masses. Hardy perennials if given slight protection through the winter.

Seed may be sown any time from spring till mid-summer. The Alpestris and Dissitiflora come into bloom in April, and are largely used for bedding between plantings of Dutch flowering bulbs. The Palustris sorts do not bloom till May, but continue till fall. (Perennial plants, page 74.)

**DISSITIFLORA.**—Rich blue; early flowers in fine sprays; 6 inches. Pkt. 15c;  $\frac{1}{6}$ -oz. \$1.50

**ALPESTRIS VICTORIA.**—Of bushy habit; bearing large, double, bright blue flowers; yellow eye; very fine; 6 inches. Pkt. 10c;  $\frac{1}{6}$ -oz. \$1.00

**ALPESTRIS ROYAL BLUE.**—Rich indigo blue; 9 inches. Pkt. 15c;  $\frac{1}{6}$ -oz. 50c

**FINEST MIXED.**—A mixture of blue, rose and white varieties. Pkt. 10c;  $\frac{1}{6}$ -oz. 40c

**PALUSTRIS SEMPERFLORENS.**—Perennial; flowers bright blue; blooms from early spring until autumn. Pkt. 15c;  $\frac{1}{6}$ -oz. \$1.00



Myosotis—Forget-Me-Not

**BEAUTIFUL LILIES.**—You will find the most popular as well as new and rare varieties on pages 78 and 79. PLANT MORE.



Morning Glory

## MARVEL OF PERU

(Four o'Clock)

Hardy annual, flowering from July to October; brilliant colors; 3 feet.

FINEST MIXED.

Pkt. 10c; oz. 35c

## MOONFLOWER—Ipomoea

**GRANDIFLORA ALBA.**—Large, heart-shaped leaves and large, pure white flowers, which open only late in the evening. 10 feet. Pkt. 15c; 1/4-oz. 25c

## MORNING GLORY

(Ipomoea)

The tall varieties are popular, well known, rapid-growing climbers of the easiest cultivation; very fine for covering arbors, trellises, porches, etc.; give them rich soil and a warm situation. The Minor or Dwarf varieties flower very freely.

**CONVOLVULUS MAJOR.**—Tall, choice, single mixed; all colors. Pkt. 10c; oz. 35c

**CONVOLVULUS MINOR.**—Dwarf mixed. Very spreading; 12 inches. Pkt. 10c; oz. 35c

**IMPERIAL JAPANESE FRINGED.**—These have very large fringed flowers in a great variety of the most exquisite colorings; handsome foliage.

Pkt. 10c; oz. 50c

**CHOICE PRIZE MIXTURE.**—This is a mixture of both American and Japanese varieties; very choice. Large Pkt. 10c; oz. 50c

(Note.—Soak the Japanese Morning Glory seed in warm water for 24 hours before planting.)

## NEMESIA

**GRANDIFLORA COMPACTA TRIUMPH.**—A very pretty, half-hardy, free-flowering annual; the plants grow about a foot high and the beautiful, dainty flowers are very varied in color, including rose, yellow, blue, orange, etc. An ideal bedding plant. Seed sown in the autumn makes beautiful pot plants for early spring blooming.

MIXED COLORS.

Pkt. 10c; 1/8-oz. 75c

## Shrubs, Trees, Etc., Page 97

Nev., 1928.

Routledge Seed &amp; Floral Co.

Gentlemen: The shrubs arrived in splendid condition and are now in the ground. I thank you very much for your courtesy in this matter.

Respectfully,

MRS. PRINCE A. HAWKINS.

## NICOTIANA

One of the easiest annuals to raise and one of the most effective. The flowers are long tubed, star-shaped, and are produced in great profusion. The flowers open toward evening and emit a powerful perfume.

**AFFINIS.**—Delightfully sweet-scented, pure white flowers, blooming continually; 2 to 3 feet.

Pkt. 10c; 1/8-oz. 25c

**AFFINIS-HYBRIDA.**—Splendid hybrids in blue, red and rose, etc., shades. Pkt. 10c; 1/8-oz. 30c

**SANDERAE.**—Of elegant branching habit, and bearing on light, graceful stems great quantities of very beautiful rosy carmine flowers; all-summer valuable border plant; 3 feet

Pkt. 10c; 1/8-oz. 30c

## NIGELLA

(Love in a Mist—Devil in the Bush)

A compact free-flowering plant with finely cut foliage and pretty feathery flowers; hardy annuals; blue and white; 1 1/2 feet.

DOUBLE MIXED.

Pkt. 10c; 1/8-oz. 15c

**MISS JEKYLL.**—A lovely variety with cornflower blue blossoms; splendid for cutting

Pkt. 10c; 1/8-oz. 25c

## NASTURTIUM—TALL OR CLIMBING

The most popular and most beautiful free-flowering annual climbing vines. These are all of strong, vigorous growth, throwing out running shoots that can be trained upon strings or wires, or can be readily made to climb ordinary paling fences or wire netting. We offer only the finest strains, producing the largest and richest flowers.

Your choice, Pkt. 10c; full collection, 8 kinds, 50c; per oz., any kind, 25c.

**ASA GRAY.**—Light amber, almost white.

**BLACK PRINCE.**—Velvety crimson, dark leaved.

**FIREFLY.**—Bright yellow, spotted cardinal red, calyx and spur ruby

**GOLDEN QUEEN.**—Sunflower yellow very fine.

**PRIMROSE.**—Creamy yellow, very pleasing.

**PRINCESS VICTORIA LOUISE.**—Cream white, scarlet spot.

**REGINA.**—Beautiful light salmon rose.

**SPITFIRE.**—Bright fiery scarlet.

**ROUTLEDGE TALL PRIZE MIXTURE.**—This is undoubtedly the finest mixture of tall nasturtiums offered anywhere; every shade is grown separately and then mixed; dark leaved.

Large Pkt. 15c; oz. 25c; 1/4-lb. 60c

**TALL CHOICE MIXED.**—A very fine selection of beautiful varieties.

Large Pkt. 10c; oz. 15c; 1/4-lb. 50c

**IVY-LEAVED FINEST MIXED.**—The ivy leaves borne on very slender stems, are of a dark metallic color, which forms a striking contrast to the beautiful flowers; an excellent variety for vases, hanging baskets, etc. Pkt. 10c; oz. 25c

**VARIEGATED QUEENS.**—A new strain of tall Nasturtiums having beautifully variegated leaves, green, white and yellow; flowers large and of many bright colors

SUPERB MIXED.

Pkt. 10c; oz. 25c

**STIM-U-PLANT.**—A Fertilizer in "tablet" form, is very convenient, clean and satisfactory way to supply necessary plant food. See page 39.

## NASTURTIUMS—Continued



## DWARF NASTURTIUMS

These are of dwarf, compact, rounded growth and are especially desirable for planting as borders to flower-beds or along garden walks.

AURORA.—Terra cotta, reddish orange.

BEAUTY.—Yellow and scarlet, very pretty.

BRONZE.—Reddish golden bronze, rich.

CRYSTAL PALACE GEM.—Yellow, spotted maroon.

EMPEROR OF INDIA.—Dark scarlet, dark leaved.

GOLDEN KING.—Indian yellow, dark leaved.

VESTITUS or SALMON QUEEN.—Salmon rose.

Price, all above Dwarf varieties, Pkt. 10c; Full Collection of 7 Pkts. 50c; per oz. 25c.

## R. R.'s Dwarf Beauty Mixture

Composed of new and rare sorts; exceedingly brilliant and beautiful. A mixture of very lovely, true dwarf varieties.

Large Pkt. 15c; oz. 25c; 1/4-lb. 60c

CHOICE DWARF MIXED.—All good varieties.

Large Pkt. 10c; oz. 20c; 1/4-lb. 50c

## PORTULACA

Low-growing or creeping half-hardy annual, 6 to 8 inches high. The cup-shaped blossoms very brilliant and of gorgeous colors. Foliage and stems are thick. Seed should be started under glass. These flowers love the sunshine and do best on rather dry ground.

SINGLE, FINEST MIXED. Pkt. 10c; 1/4-oz. 40c

DOUBLE, FINEST MIXED. Pkt. 15c; 1/4-oz. 75c

PLANTS in May. Doz., postpaid, 60c

## PENTSTEMON

(Beard Tongue)

The handsome, brilliant flowers are borne on long terminal spikes, much resembling *Gloxinia*. Perennial; will bloom the first season if sown early; 3 feet. All colors from yellow to red and purple. (Plants, page 75.)

HYBRIDA MIXED. Pkt. 10c; 1/4-oz. 50c

## PHLOX DRUMMONDI

We know of nothing which produces such a continuous supply of the most attractive flowers in a most wonderful range of colors; 1 foot. Plants in May, 60c doz.

DRUMMONDI GRANDIFLORA, MIXED.—A splendid mixture of all shades and colors.

Pkt. 10c; 1/4 oz. 35c

SEPARATE COLORS.—White, Pink, Rose, Scarlet, Lilac, Pimrose or Striped. Pkt. 10c; 1/4-oz. 50c

DECUSSATA (Tall Perennial Phlox).—One of the finest perennials with its extremely large heads of the most magnificent colored flowers; June to September.

Pkt. 10c; 1/4-oz. \$1.00

PERENNIAL PHLOX PLANTS on page 75.

## PRIMULA

(Primrose)

The first two varieties named below are hardy, early-blooming garden plants, and the others beautiful winter-blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. (Plants, page 69-75.)

POLYANTHUS (Veris Mixed).—Early blooming, dwarf growing plants, valuable for outdoor bedding and edging; 8 inches; perennial. Pkt. 15c

VULGARIS (Veris Aureum).—Yellow, common English Primrose; hardy garden variety; perennial; 8 inches. Pkt. 15c

GBONICA GRANDIFLORA HYBRIDS.—A lovely, profuse bloomer, bearing beautiful clusters of single flowers, for pots only. (See plants, page 69.) Pkt. 25c

SINENSIS OR CHINESE PRIMROSE.—Beautiful, large, fringed flowers; especially fine for winter and spring flowers in the house; free bloomers. FINEST MIXED. Pkt. 35c

## PYRETHRUM

AUREUM (Golden Feather).—Half-hardy, perennial; valuable for edging, as their yellow foliage makes a fine contrast with other bedding plants; 6 inches. Pkt. 10c

HYBRIDUM GRANDIFLORUM.—Produce in early spring and again in the fall, large daisy-like flowers in a wide range of colors; excellent for cutting; perennial. (Plants, page 75.)

SINGLE MIXED. Pkt. 15c; 1/4-oz. \$1.00

HYBRIDUM DOUBLE MIXED.—While some of the flowers may come single, 80 per cent or more will be semi-double and double and be a grand improvement in form and rare colors. Pkt. 25c

## POPPY—PAPAVER

Universal favorite of the easiest culture. They produce a wealth of the most beautiful and showy blooms. Both perennial and annual poppies bloom the first year and from early-sown seed. Perennial varieties will, but annuals will not, transplant safely, therefore sow the annuals where they are to remain and thin out, giving each plant ample room to grow and develop.

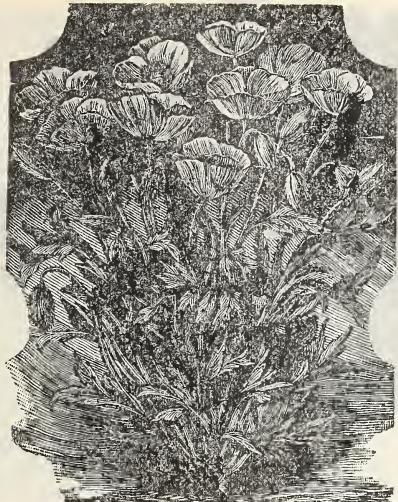
FLANDERS (Perennial).—The scarlet poppy of the fields of Flanders, made famous in the song and story of the great war and familiar to all members of the A. E. F. who served in Belgium and France. Flowers satiny, crinkled, bright scarlet, nicely poised on slender stems.

Pkt. 10c; 1/4-oz. 25c

TALL PEONY FLOWERED (Annual).—Large, handsome, showy double globular flowers resembling a double peony (annuals). We offer 2 beautiful colors, Shrimp Pink and Vermilion Red.

Pkt. 10c; 1/4-oz. 15c

PERENNIAL FLOWERS are rapidly gaining in favor. MORE should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. See pages 73-76.)



Oriental Poppy

**POPPY—Continued**CALIFORNIA.—See *Escholtzia*, page 54.

CARNATION FLOWERED (Annual).—Splendid double fringed flowers, salmon pink or mixed colors.

Pkt. 10c; oz. 35c

ICELAND, OR NUDICAULE (Perennial).—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks, bearing beautiful brilliant single flowers in endless profusion, and most useful for cutting. (For plants, see page 75.)

YELLOW, WHITE, SCARLET. Pkt. 10c; 1/4-oz. 50c  
SINGLE MIXED. Pkt. 10c; 1/4-oz. 35c

DOUBLE ICELAND MIXED.—Very choice strain, double flowers.

Pkt. 15c; 1/4-oz. \$1.00

SUNBEAM.—An improved and glorified Iceland poppy. Sunbeam is a vast improvement both in strength and length of stem and size and beauty of the flowers.

Sunbeam Mixed. Pkt. 20c; 1/8-oz. 50c  
Sunbeam Deep Orange or Yellow. Pkt. 25c; 1/8-oz. 75c

SHIRLEY (Annual).—Charming poppies. Flowers single and semi-double, and range in color from purest white through the delicate shades of pale pink, rose and carmine to the deepest crimson and blood-red. The petals are like silk. Free-blooming and fine for borders or beds; 1 1/2 to 2 feet.

MIXED. Pkt. 10c; 1/4-oz. 25c; oz. 75c

ANNUAL SUPERB MIXTURE.—A superior strain, containing the choicest of single and double varieties in all of the brightest colors.

Pkt. 5c; oz. 35c

GIANT ORIENTAL POPPIES.—Among hardy perennials these hold an unrivaled position for gorgeous effectiveness. Height 2 to 3 feet, flowers immense, often 6 inches across. Excellent cut for decoration. Plant in the open ground in June or July to bloom the following season.

ORIENTAL BRILLIANT.—Bright scarlet, black spots at base of each petal. Pkt. 10c; 1/8-oz. 75c

ORIENTAL PRINCESS VICTORIA.—A beautiful salmon-pink; wonderful flower. Pkt. 25c

ORIENTAL HYBRIDS MIXED.

Pkt. 15c; 1/8-oz. \$1.00

ORIENTAL POPPY PLANTS.—See page 75.

**GIANT PANSIES**

This popular flower thrives best on a cool, moist, but well-drained soil enriched with well-rotted barn-yard manure or fine ground bone. Seeds sown early will produce fine plants for summer blooming. The florists' method, though, is to sow in July or August, and protect the plants during the winter, and they will flower continuously early the following spring and summer.

**ROUTLEDGE PRIZE MIXTURE.**—For variety of markings, beauty of form, size and splendid texture, this superb strain cannot be excelled.

Pkt. 25c; 1/8-oz. \$1.25

**STEELE'S MASTODON GREENHOUSE SPECIAL.**

—This superb strain is famous among professional florists everywhere. Flowers rare and rich in colors and of giant size. Oregon grown. Mixed.

Pkt. 20c; 1/8-oz. \$1.00

**GIANT TRIMARDEAU.**—A popular bedding strain on account of the strong, sturdy plants and the enormous flowers in the greatest variety of colors. Mixed.

Pkt. 15c; 1/8-oz. 55¢

**CHOICE MIXED.**—A fine bedding strain.

Pkt. 10c; 1/8-oz. 35¢

**New Giant Pansies, Separate Colors**

Your choice of the following named varieties:

Pkt. 20c; full collection of 10 pks. for \$1.50

ADONIS.—Of huge size, light blue.

PRINCE HENRY.—Giant, splendid dark blue.

MADAME PERRETT.—Distinct and beautiful type, edges frilled; dark pink and red.

GRAND DUKE MICHAEL.—Pure white.

MILLE. ISABELLE.—Ruffled bronze-yellow.

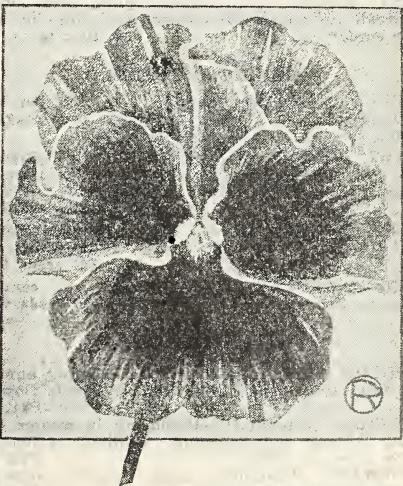
VULCANO.—A rich velvety Burgundy red.

PANAMA PACIFIC.—A huge deep yellow, some pure yellow, others with dark eyes.

MADAME STEELE (Elks Purple).—A giant royal purple.

BRONZE MASTODON.—Giant, all shades from bronze to old gold; wonderful colors.

WHITE MASTODON.—A giant white with a dark center. Extra fine.



**PLANTS.**—Large flowering, choice pansy plants, ready very early in the spring. Can be safely sent by mail. Large plants in bud, 75c doz. postpaid.

## PETUNIA

One of our easiest cultivated and freest flowering annuals. Will succeed almost anywhere and give a continuity of the most brilliant bloom from June till killed by frost. Excellent for balcony or porch boxes. The strains we offer are the very choicest obtainable.

### Single Varieties

**RUFFLED GIANT PRIZE MIXTURE.**—This strain produces in great profusion enormous flowers, having edges of petals beautifully ruffled and fluted; of great variety of colors, many being beautifully veined; unsurpassed for size and beauty.

Pkt. 35c; 1,000 seeds \$3.00

#### NEW FRINGED HYBRIDIA

A lovely petunia with charming fringed flowers of exquisite forms and beautiful colors. Not equal in size to Ruffled Giant, but they are more delicate and really beautiful.

Pkt. 25c; 3 for 60c

**LARGE-FLOWERED FINEST MIXED.**—Fine large flowers in superb mixture. Pkt. 15c;  $\frac{1}{2}$ -oz. \$1.00  
**FINE MIXED.**—An assortment of medium-sized flowers; fine for bedding. Pkt. 10c;  $\frac{1}{2}$ -oz. 50c

### Single—Separate Colors

**PINK TRIUMPH—NEW.**—Of large size, beautifully ruffled, a clear, bright pink. A charming free-flowering variety

Pkt. 20c; 3 for 50c

**GIANT WHITE.**—Unrivaled for beauty of texture and size. A glistening satiny white with yellow throat.

Pkt. 20c; 3 for 50c

**ELKS' PURPLE.**—Giant single purple. Pkt. 35c  
**PRIDE OF PORTLAND.**—Beautiful fringed pink. Very popular local variety.

Pkt. 35c

**BALCONY PETUNIAS.**—A new and splendid free, large-flowering type for windows, baskets, vases or bedding.

Balcony, White, Rose or Deep Blue. Pkt. 20c; 3 for 45c

**ROSY MORN.**—Soft carmine pink, with white throat. A wonderful bloomer and fine for beds or border.

Pkt. 10c;  $\frac{1}{2}$  oz. 75c

### Double Petunias

All of our Double Petunias are selected with greatest care, and contain as large a percentage of double flowers as it is possible to obtain.

**GIANT DOUBLE, FINEST MIXED HYBRIDS.**—A new and exceptionally fine strain; unsurpassed for the large, beautifully colored double flowers.

Pkt. 50c; 500 seeds \$3.00

**GIANT DOUBLE MIXED.**—Large fringed flowers of wonderful form and beauty. Quite true.

Pkt. 35c; 500 seeds \$2.50

**CHOICE DOUBLE MIXED.**—Large per cent of double flowers.

Pkt. 25c; 500 seeds \$2.00

## RUDBECKIA

**BICOLOR SUPERBA.**—Fine free-flowering annual; 2 feet; long stems, bright yellow double flowers.

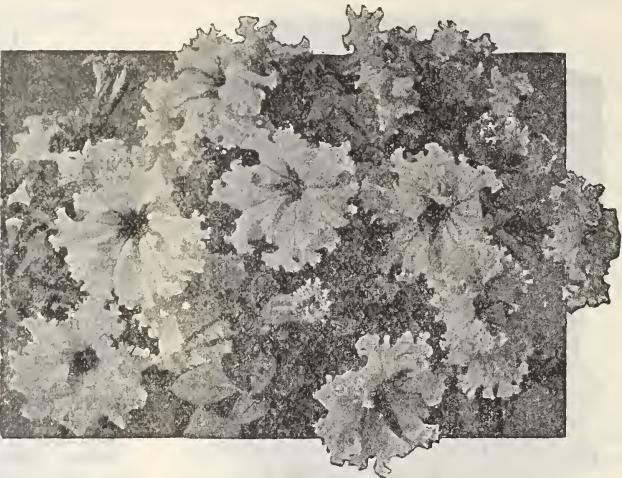
Pkt. 10c

**FULGIDA.** (perennial).—Producing in masses during August and September brilliant orange-yellow flowers; 6 feet.

Pkt. 10c

**NEWMANIA.**—Perennial; large, bright orange-yellow flowers, dark centers.

Pkt. 15c



New Fringed Hybrida

## RICINUS

(Castor Oil Bean)

A magnificent and highly ornamental plant, with picturesque foliage and stately growth; hardy annuals.

**ZANZIBARENSIS, Mixed.**—Very ornamental; dark bronzy green and red leaves; 8 to 10 feet high.

Pkt. 10c; oz. 35c

**SANGUINEUS TRICOLOR.**—Blood red stems, deep green leaves, with red veins; 6 feet.

Pkt. 10c; oz. 35c

**GIBSONI.**—New, dark red foliage; 5 feet.

Pkt. 10c; oz. 35c

**FINEST MIXED.**—All kinds. Pkt. 10c; oz. 20c

## SCHIZANTHUS

(Butterfly Flower)

Beautiful garden annuals; flowers charmingly fringed and delicately colored; 1 to 2 feet.

**GRANDIFLORA MIXED.** Pkt. 10c;  $\frac{1}{2}$  oz. 75c

## SMILAX

Tender climbing vine; perennial.

Pkt. 10c

## SAPONARIA

**OXYMOIDES.**—Very showy perennial rock plant producing all summer masses of small bright rose flowers. 9 inches.

Pkt. 15c

**VACCARIA.**—Annual, 2 feet, satiny pink. Fine in bouquets.

Pkt. 10c

## SWEET WILLIAM

Hardy biennial, well known, and very popular. The handsome, showy heads of brilliant flowers from June to September, are very effective. (Large plants see page 76.)

Dark Crimson, White, Pink Beauty or Mammoth Single Mixed. Pkt. 10c;  $\frac{1}{2}$ -oz. 50c

Double Mixed.—All colors. Pkt. 10c;  $\frac{1}{2}$ -oz. 40c

## STATICE

Splendid hardy perennials, either for the border or rockery, producing all summer cloud-like panicles of minute flowers, which can be dried and used for winter bouquets. 2 feet.

**LATIFLORA.**—(Perennial.) Deep blue. Pkt. 10c

**SINUATA.**—Annual Statice, in blue, rose or white. Pkt. 10c



Scabiosa

**SCABIOSA**

(Morning Bride—Pin Cushion Flower, Etc.)

The hardy annuals are easily grown from seeds sown after danger of frost is over. Their beautiful, dainty flowers are freely produced on fine long stems from July to frost; 2 feet. For cut flowers they are wonderful, lasting for nearly a week.

**HARDY ANNUALS.**—Lavender, Rose, Yellow, Scarlet or White or Finest Mixed.

Pkt. 10c;  $\frac{1}{4}$ -oz. 35c. Plants in season 50c doz., postpaid.

**HARDY PERENNIAL VARIETIES.**—Caucasia, soft blue, pkt. 15c. Japonica, lavender blue, pkt. 10c.



Salvia Zurich

**SALVIA**  
(Scarlet Sage)

The Scarlet Sage has long been a favorite bedding plant, bearing long spikes of brilliant scarlet flowers in great profusion from July till frost; seed should be sown as early as possible, either indoors or in a hotbed, and the young plants transferred to their flowering quarters when the weather has become settled and warm. **PLANTS IN MAY 50c DOZ., POSTPAID.**

**SPLENDENS COMPACTA.**—A splendid, showy variety, with large spikes of bright rich scarlet flowers; 3 feet. **Pkt. 10c;  $\frac{1}{4}$ -oz. 50c**

**AMERICA — NEW.**—Of dwarf, bushy, compact growth, very uniform, early and continuous bloomer. Flowers brilliant, rich scarlet.  $1\frac{1}{2}$  feet. **Pkt. 15c;  $\frac{1}{4}$ -oz. 75c**

**BONFIRE.**—Of bushy, compact growth. Flowers dark, rich scarlet, on spikes which stand clear of the foliage and attract attention at once; 2 feet. **Pkt. 15c;  $\frac{1}{4}$ -oz. 60c**

**ZURICH.**—A splendid new dwarf, of special merit; early. Brilliant scarlet and very free flowering; 15 to 18 inches. A very popular variety. **Pkt. 15c;  $\frac{1}{4}$ -oz. 75c**

 **SALPIGLOSSIS**

Produces very showy, trumpet-shaped flowers of large size and rich, gorgeous colors; fine for beds and one of the prettiest cut flowers we have. Of easy culture and very popular; half-hardy annuals. 2 feet.

**EXHIBITION MIXTURE.**—Large flowering, of the very choicest colors. **Pkt. 10c;  $\frac{1}{4}$ -oz. 60c**

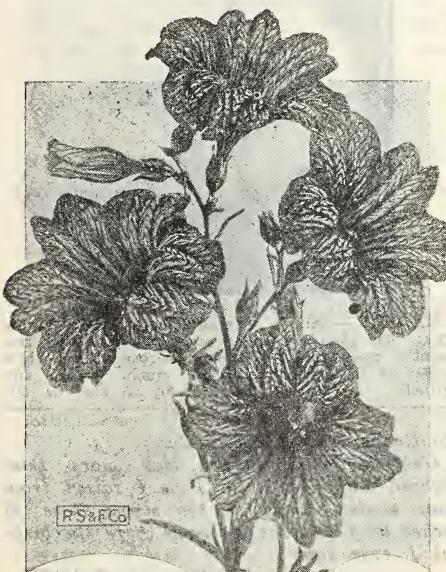
**SEPARATE COLORS** as follows: PURPLE and GOLD, SCARLET and GOLD, VELVETY RED, WHITE, BROWN and GOLD, LIGHT BLUE. **Pkt. 15c;  $\frac{1}{4}$ -oz. 50c**

**PLANTS MIXED COLORS IN MAY, 50c DOZ., POSTPAID.**

*Idaho, 1928.*  
Gentlemen: You sent me a trial packet of Salpiglossis to try for you in this place. They do fine here and surely are a beautiful flower.

Thank you for the privilege.

MRS. JUDD STEWART.



Salpiglossis

**HOW TO GROW FLOWERS AND SEEDS.**—Our two-page leaflet gives full information and is free on request.

# SWEET PEAS "Highest Quality" TRUE VARIETIES

## NEW GIANT SPENCERS 1930 PRIZE COLLECTION

Collection Price, 12 New, Lovely Kinds  
(value \$1.65), SPECIAL, \$1.00, postpaid

**MARY PICKFORD.**—A beautiful dainty cream pink with just the faintest suffusion of salmon, making a color combination of delightful beauty. Flowers large, decidedly waved on long stems of real merit.

Pkt. 10c;  $\frac{1}{2}$  oz. 30c; oz. 50c

**HEAVENLY BLUE.**—This is a charming shade of bright sky-blue. The flowers are large and of finest form and come freely on long stems. It is bright and harmonious when bunched.

Pkt. 15c;  $\frac{1}{2}$  oz. 35c; oz. 60c

**AVALANCHE.**—It is gigantic in size, exquisite in form and pure in color. By far the best white Sweet Pea today. Perfect long stems, with four beautiful frilled flowers. A vigorous grower, very free-flowering and a prize winner.

Pkt. 15c;  $\frac{1}{2}$  oz. 40c; oz. 75c

**ROYAL SOVEREIGN.**—A wonderful variety, a great producer of enormous, waved and frilled flowers that generally come four to the stem. The color is a rich, glowing, deep orange.

Pkt. 15c;  $\frac{1}{2}$  oz. 35c; oz. 60c

**WEMBLEY.**—New.—A true, clear, lilac lavender of giant size and perfect form. There is nothing quite so rich in lavenders as this splendid variety.

Pkt. 15c;  $\frac{1}{2}$  oz. 35c; oz. 60c

**PINKIE.**—This beautiful Sweet Pea is unsurpassed for either exhibition or general cutting purposes. The color is a most distinct and beautiful shade of rich rose pink, flushed and shaded with salmon pink. Long stems.

Pkt. 15c;  $\frac{1}{2}$  oz. 40c; oz. 70c

**GOLD CREST.**—A great advance in its color class; a flower of great size and finest form. The color is salmon, flushed orange. Truly a beautiful flower.

Pkt. 10c;  $\frac{1}{2}$  oz. 35c; oz. 60c

**WHAT JOY.**—At last a deep, rich, pure cream colored sweet pea of vigorous free-flowering qualities. Fine frilled flowers; very charming.

Pkt. 15c; oz. 75c

**POWERSCOURT.**—A pure lavender self with flowers of mammoth size, yet refined and well placed on long stems. Of vigorous and free-flowering habit. The one best pure lavender. Award of Merit from the National Sweet Pea Society of Great Britain.

Pkt. 15c; oz. 60c

**CHARITY.**—New. A remarkable new crimson of great richness and substance. Wonderful flowers, freely produced on long stems. Unsurpassed.

Pkt. 10c; oz. 40c

**MAMMOTH.**—This will please all who admire bright scarlet sweet peas. Flowers large, of perfect form and freely produced on long stems. Blazing scarlet.

Pkt. 15c;  $\frac{1}{2}$  oz. 40c

Inoculate Sweet Pea Seed with McQUEENS INOCULATOR. See page 39.



**MAGNET.**—This is a magnificent bright cream pink. The standard is of enormous size and frequently measures  $2\frac{1}{2}$  inches across. The whole flower is of excellent form, much waved and frilled.

Pkt. 15c;  $\frac{1}{2}$  oz. 30c; oz. 50c

Ore., 1928.

Routledge Seed & Floral Co.

Gentlemen: I surely was more than pleased with the Sweet Peas I raised from your seeds. Some of the stems were 15 inches long and the blossoms were the largest I ever saw.

MRS. C. A. DAVIS.

QUALITY and TRUENESS is what makes the price in Sweet Peas. Low prices never bought "HIGHEST QUALITY" Seeds. Read about "Snarel"—Page 109.

## Novelty Collection Six New Sweet Peas of Real Merit

All are free-flowering sturdy growers that will bring sunshine and happiness to sweet pea lovers.

HAVE YOUR CHOICE—25c pkt. or one each of the six for \$1.00.

**ADORABLE.**—A delightful shade of clear salmon. Beautiful large flowers well placed on long stems.

**GLENNEAGLES.**—This is considered one of the finest light blue or lavender shades of recent introduction. A handsome flower both in color and form.

**MODEL.**—An outstanding new black seeded sweet pea of magnificent proportions. A strong, hardy grower producing large, pure white flowers.

**OLYMPIA.**—A new novelty of real merit. Handsome large flowers of a rich royal purple. A most desirable shade.

**SUPREME.**—This ranks as one of the best clear pinks. Its soft and delicate color and perfection of form will please you.

**HUNTSMAN.**—A bright shade of scarlet; really a wonderful bit of color. Sunproof and of largest size. A new English novelty unsurpassed to date.

Kanaskat, Alaska, March 4, 1929.  
Routledge Seed & Floral Co.  
Portland, Oregon

Gentlemen: We used your seeds in the family for years and we have always been very well pleased with them. I am looking forward to the Sweet Peas this year.

Sincerely,  
MRS. JOHN GRIFFITH.

## Superb 1929 Collection Sweet Peas

**SPECIAL.**—One packet of each of the following seven choice kinds—VALUE 75c, for 50c. Add 15c extra (total 65c), and we will include a 25c packet of R. R.'s Superb Mixture Giant Spencers (described below):

**CONSTANCE HINTON.**—Giant white of fine form. Hardy. Pkt. 10c; oz. 40c

**MARGARET ATLEE.**—Rich cream pink, beautifully frilled. Pkt. 10c; oz. 40c

**HALMARK LAVENDER.**—Beautiful, pale lavender, large flower. Pkt. 15c; oz. 40c

**HALMARK PINK.**—A very rich pure pink of fine form. Pkt. 10c; oz. 40c

**BARBARA.**—Very popular. Beautiful rich orange. Pkt. 10c; oz. 40c

**KING EDWARD SPENCER.**—The most popular deep scarlet. Pkt. 10c; oz. 40c

**ROYAL PURPLE.**—A true rich purple of large size. Pkt. 10c; oz. 40c

## R. R.'s Superb Mixture of Giant Spencer Sweet Peas

This is our own special mixture and is composed only of the best giant orchid-flowering wavy Spencer varieties. For healthy, robust growth, wealth of blooms, size of flowers and exquisite and rare colorings, this mixture is unequalled. ½-oz pkts. 15c; oz. pkts. 25c each; 3 for 60c; 6 for \$1.00.

## CUPID SWEET PEAS

Compact dwarf plants, seldom growing over 4 to 6 inches high. Flowers of good size and at the top of short, stiff stems. YOUR CHOICE, NAMED, PKT. 15c; OZ. 50c.

**LITTLE NELL.**—Pink wings, white standard. Very early.

**ROSEBUD.**—Vines not over 4 inches high; lovely creamy apricot-pink.

**MIDSHIPMITE.**—Spreading, often 18 inches. Flowers white, suffused and edged violet-blue.

**CUPID MIXED.**—Pkt. 10c; oz. 25c; ¼ lb. 75c

## EARLY OR WINTER FLOWERING SPENCER SWEET PEAS

This new class of Sweet Peas is the best for the florist to force under glass or for extra early flowers outside. They grow and flower earlier than the Giant Late Spencer. Excellent for sections where the season is late and short or very hot and dry. Plant early.

**PRICES.**—YOUR CHOICE, PKT. 15c; FULL COLLECTION 90c; OZ. 50c.

**EARLY LIBERTY.**—Large, bright crimson.

**EARLY SWEET LAVENDER.**—A new pure lavender, giant flowers of beautiful form.

Pkt. 20c; oz. 75c

**EARLY MORNING STAR.**—Salmon pink; extra.

**EARLY PEACE.**—Rose-pink on cream.

**ALL WHITE.**—Largest waved pure white.

**EARLY TORCH.**—A lovely orange shade.

**EARLY SPRING MAID.**—A lovely light pink.

**EARLY AVIATOR.**—Dazzling crimson-scarlet.

**EARLY PINK CHEROKEE.**—Of unsurpassed beauty and form. A lovely rich pink suffused with bright salmon. Pkt. 20c; oz. 75c

**EARLY SUNRISE MIXTURE.**—A very select mixture of early varieties. Pkt. 10c; oz. 40c

Treat your Sweet Peas with "McQueen's Inoculator" before planting and note increased vigor of the plants—see page 39.

## STOCK

(Gilliflower)

By far one of the most popular annuals for garden or greenhouse culture. They are superb for cutting and are of great value for bouquet work. Flowers are of delicious fragrance, large, mostly double, and borne on handsome spikes; all will flower the first year. They are very hardy and often remain in bloom in the yard all winter in the vicinity of Portland. Sow in February or March for early bloom and in June for fall or winter flowers, and transplant. Plants, 75c doz.

**BISMARCK TEN WEEKS.**—New. A quick blooming giant flowered stock of special merit, growing about 30 inches tall, of branching habit and produces freely beautiful spikes of double flowers. Excellent for cutting or mass bedding. White, Blush, Rose, Yellow, Lavender, Dark Blue, Fiery Red and Choicest Mixed. Pkt. 10c;  $\frac{1}{8}$  oz. 90c

**GIANT PERFECTION.**—Large double flowers; fine for cutting and garden. (2 feet.)

Finest Mixed. Pkt. 10c;  $\frac{1}{8}$  oz. 75c

**BEAUTY OF NICE.**—Popular with florists for cutting, flowers of large size, double, and freely produced; 2 feet.

Mixed.—All colors.

Princess Alice.—Double white.

Queen Alexandra.—Soft rosy lilac.

Beauty of Nice.—Delicate flesh pink.

Pkt. 15c

Pkt. 15c

Pkt. 15c

Pkt. 15c



Bismarck Stocks

## TRITOMA

(Red Hot Poker)

Striking and exceedingly ornamental autumn flowering plant. Showy flower spikes, shaded red and yellow; 3 feet. (See cut and plants, page 76.)

Pfitzeri Pkt. 10c;  $\frac{1}{8}$  oz. 50c

**GLADIOLI BULBS** make a beautiful display when in bloom and are of the easiest culture and really not expensive, as they multiply rapidly. See pages 82, 84.

Idaho, Jan. 27, 1929.

Routledge Seed &amp; Floral Co.

Gentlemen: I have found your seeds, etc., very satisfactory in the past and will try them again this year.

JENNIE M. CULP.

## THALICTRUM

Meadow Rue

These stately flowering plants should be more extensively planted on account of the beautiful, finely cut foliage and lovely flowers. Will do well in shady places.

**DIPTEROCARPUM.**—Buds resemble pearls opening into lovely lavender flowers.

Pkt. 25c; Plants 3 for \$1.00

**GLAUSUM.**—Fine cut glaucous foliage, bronzy-yellow flowers in June.

Pkt. 15c

**AQUILEGAFLORUM ALBUM.**—Elegant foliage feathery white flowers.

Pkt. 15c

## THUNBERGIA

Extremely pretty yellow flowers with dark eye; rapid-growing annual trailers.

FINEST MIXED. Pkt. 10c;  $\frac{1}{4}$  oz. 75c

## VERBENA

One of the finest bedding plants and also suitable for borders, baskets and window boxes. Plants in May, 60c doz. postpaid.

**NEW GIANT.**—The most beautiful and remarkable variety yet introduced.

Hybrida Giant Mixed. Pkt. 15c;  $\frac{1}{8}$  oz. 40c

**LUCIFER.**—A new mammoth variety of dwarf spreading nature, flowers of the bright, vivid, cardinal scarlet, throughout.

Pkt. 15c  $\frac{1}{8}$  oz. 60c

**MAMMOTH.**—A carefully selected and improved strain. The trusses and individual flowers are of the largest size, of brilliant colors; free-blooming and of vigorous habit. Mammoth White, Scarlet, Rose-Pink, Purple shades or Mixed.

Pkt. 10c;  $\frac{1}{4}$  oz. 50c

**FINE MIXED.**—A choice mixture of large-flowering sorts.

Large pkt. 10c;  $\frac{1}{4}$  oz 40c

## VALERIANA

(Garden Heliotrope)

A fine old-fashioned hardy plant; flowers have a strong heliotrope odor; showy, red or white; fine for bouquets; 2 feet.

MIXED. Pkt. 10c;  $\frac{1}{8}$  oz. 25c

## VIOLAS

Tufted Pansies

These resemble pansies in shape and form. Flowers are smaller, clear and distinct, with longer stems and flower freely from early spring until snow flies. Seeded in April will flower in June.

Pkt. 15c

## VIOLET

Viola Odorata is the well-known English Violet, a free-flowering, hardy perennial.

ODORATA.—Blue or White. Pkt. 25c

For VIOLET PLANTS see page 76.

## WALLFLOWER

Very highly prized, old-fashioned plants, beautiful, early spring flowers; plants 76.

**SINGLE YELLOW, DARK RED OR FINEST MIXED.** Pkt. 10c;  $\frac{1}{8}$  oz. 25c

**DOUBLE, FINEST MIXED.**—Fragrant; 3 feet.

Pkt. 15c;  $\frac{1}{8}$  oz. \$1.00

## WILD CUCUMBER

(See Echinocystis, page 54.)

## Routledge Prize Zinnias

The Zinnia is one of the most brilliant, showy and satisfactory annual flowers. It has long been a general favorite, but with the wonderful new and "late creations" produced by "Zinnia specialists" in the last few years it now is probably the most popular flower of the day.

For mass planting, cut flowers and decorations they are unsurpassed, producing a wonderful display from July until heavy frosts.

### NEW DAHLIA FLOWERED

This new, giant, double-flowered Zinnia (see cut) is a wonder in size, shape, new colors, perfection and profusion of flowers. Plants grow sturdy and vigorous, about 3 feet high. Flowers 4 to 6 inches across, full, very deep and of the most wonderful shades. All of the usual colors and many rare, such as salmon, old rose, pink, cerise, strawberry red and autumn tints. We offer a very select strain of seed containing all novelties. DAHLIA-FLOWERED GOLD MEDAL MIXED—Pkt. 15c; 2 for 25c;  $\frac{1}{2}$  oz. 60c.



### Named Dahlia Flowered Zinnias

#### Six New Novelties in Separate Colors

Your choice of the following: Large pkt. 20c; all 3 colors, \$1.25;  $\frac{1}{2}$  oz. any kind, 75c.

**EXQUISITE**.—A charming true dahlia-flowered type of light rose, shaded deep rose at center.

**CRIMSON MONARCH**.—Largest and best of the red shades, plants vigorous.

**BUTTERCUP**.—An immense deep canary yellow. A desirable color for every collection.

**METEOR**.—A rich, glowing, deep red, darkest of all red shades. Very large.

**DREAM**.—A fine deep lavender turning to mallow purple. A new and desirable shade.

**ORIOLE**.—A very popular color, orange and gold; a bicolor changing slightly as it ages but very charming at all times.

**SCARLET FLAME**.—A large, beautiful bright scarlet, very showy.

**PURPLE PRINCE**.—A fine purple (*Rhodanthus Purple*), large and well formed.

### GIANT MAMMOTH "NOVELTIES"

These wonderful new novelties, a cross between the Dahlia and Double Giant, show smaller centers and more loosely placed petals, while the size of the flower is immense, larger than the Double Giants. The handsome flowers are decidedly imbricated and the flower, from bud to full bloom, presents a very graceful and pleasing appearance. (3 feet.)

**PRICES**: Your choice of the following—Pkt. 20c; collection of 5, 75c;  $\frac{1}{2}$  oz., any color, 75c.

**ORANGE KING**.—A striking shade, glowing orange.

**SCARLET GEM**.—One of the brightest in this class; a rich, glowing scarlet.

**LEMON QUEEN**.—Of immense size and unique inasmuch as it carries a pleasant odor; light canary on upper side of petals, cerise on lower; the whole blending into a variety of lemon tints delightfully different.

**ORANGE QUEEN**.—Not as dark as Orange King; distinct from all other shades.

**PURITY**.—A pure white, without the objectionable "green" tint that has made white zinnias so unpopular in the past.

**ROSE QUEEN**.—Opens bright rose with deep rosy red center; gradually develops into a warm, deep rose in full bloom; a great favorite—size and form perfect.

**GIANT MAMMOTH MIXED**.—A grand mixture of all colors. Pkt. 15c;  $\frac{1}{4}$  oz. 60c

### DOUBLE GIANT ZINNIAS

These are the improved giant flowering type. Flowers are borne on long stiff stems and are of a semi-globular form, very full and double. Excellent for cutting. Plants grow  $2\frac{1}{2}$  to 3 feet high and produce very freely handsome flowers, many measuring from 4 to 5 inches across and all of lovely rich and rare colors.

#### Double Giant, Separate Colors

**WHITE, CRIMSON, GOLDEN YELLOW, PURPLE SHADES, SALMON SHADES, LIGHT CARNARY, SHRIMP PINK, LAVENDER, BURNT ORANGE, DEEP ROSE, RUBY RED OR DOUBLE GIANT MIXED**.—All colors, your choice: Pkt. 10c; 6 for 50c;  $\frac{1}{2}$  oz. 50c.

**SUPERB DOUBLE GIANT SPECIAL MIXTURE**.—Our own mixture of the finest colors. A blend of wide range and rare and rich colors.

Pkt. 15c; 4 for 50c;  $\frac{1}{4}$  oz. 60c

**PICOTEE DOUBLE MIXED**.—Distinct, very effective. Pkt. 10c;  $\frac{1}{2}$  oz. 50c

Idaho, Jan. 18, 1929.  
Routledge Seed & Floral Co.  
Portland, Oregon

Gentlemen: I will tell you I have used your seeds for several years and I can not say enough in praise for them, they are just wonderful and always true to name.

Yours truly,  
MRS. GEO. AMBURGEY.



Dwarf Zinnias

**ZINNIA—Continued**

The most popular flower of the day, easily grown from seed planted outside early in the spring.

**Improved Dwarf Zinnia**

**ELEGANS PUMILA.**—This improved strain of double, dwarf Zinnia is wonderfully adapted to beds or borders. The plants are of compact rounded form and produce from early summer until late fall, a multitude of medium size bright, showy rounded flowers on fine long stems.

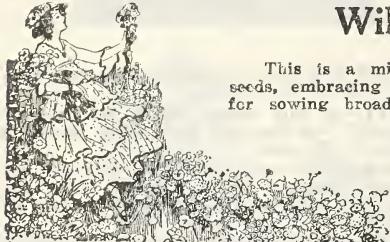
Planted 15 inches apart they will make a solid compact border. The most showy and satisfactory hardy type of free flowering annual we have for this purpose.

The flowers, on their graceful stems, make lovely bouquets all by themselves or mixed with other flowers. Well grown plants are 12 to 15 inches tall but full and compact from the ground up. Easily grown from seed planted in the early spring, either inside or outside in beds and later transplanted to their permanent place. We offer the most popular colors.

**BRIGHT SCARLET, GOLDEN YELLOW, SALMON ROSE, WHITE OR MIXED.** Pkt. 10c;  $\frac{1}{4}$  oz. 25c

**Elegans Tall Double Mixed**

A choice strain of medium-sized, double flowers (3½ feet). Pkt. 10c;  $\frac{1}{4}$  oz. 25c

**Wild Flower Garden—Mixture**

This is a mixture of easy growing, hardy annual and perennial flower seeds, embracing a wide range of different kinds and colors. Very desirable for sowing broadcast along walks, shrubbery, pathways, roadways or in the garden. With little or no care they will produce a bright effect and furnish an abundance of flowers for cutting. If you wish to get the largest returns plant in a prepared bed and when the plants are a few inches high, transplant here and there or wherever wanted. You will derive a great amount of pleasure from watching the development of the flowers from the unknown plants.

Prices—Well filled pkts. 10c; oz. 35c

**MISCELLANEOUS BEDDING PLANTS**

Following prices are postpaid, plants mailed in proper season

**ALOYSIA CITRIODORA.**—The well-known Lemon Verbena. Sweet scented foliage. An old favorite. 25 cents each.

**CALCEOLARIA—SHOWER OF GOLD.**—A fine bedding plant made great use of in England. Pretty clusters of golden-yellow purse-like flowers well above the foliage, flowering profusely all summer; 18 inches high and branches freely.

20c Each, \$2.00 Doz.

**COLEUS—FANCY LEAVED.**—Important bedding plants grown for their brilliant hued foliage which is as varied as the color of the rainbow.

Each 15c; Set of 6 Sorts 75c

**HELIOTROPE.**—Popular bedding and basket plants, producing freely all season fragrant flowers, highly prized.

We grow four kinds. Albatross White, Heavenly Blue, dark blue, Violet Queen, purple and Lavender Queen, lavender. 20c each. Set of 4 sorts 65 cents. \$1.50 per dozen.

**MARGUERITE, Mrs. Sanders.**—A superb new Marguerite or Paris Daisy coming from England. Covered all Summer with large, Anemone-shaped.

NOTE—If interested send for complete list of annual bedding plants

**SINGLE BEDDING PETUNIAS**

Petunias are undoubtedly one of the most popular summer flowers of the time. Especially are the new single sorts prime favorites because of their easy growth and free blooming habits.

**SINGLE VARIETIES** 20c EACH, \$2.00 DOZEN

**ELKS PRIDE.**—Rich dark purple single flowers in great profusion all summer.

**SCARLET BEAUTY.**—Bright scarlet, single-fringed flowers in great profusion.

semi-double white flowers of great beauty. A fine garden plant. 20c each; \$2.00 per dozen

**PELARGONIUMS.**—(Lady Washington Geraniums).—An old but popular family of bedding and house plants. Produce large trusses of delicate and richly colored flowers all summer. We have 4 choice sorts including the well known EASTER GREETING. Price 30 cents each. Set of four kinds for \$1.00.

**SALVIA America.**—A wonderful new variety of Scarlet Sage, the earliest freest and most continuous yet produced. Large spikes of bloom 2 feet high. 10c each. 75c per dozen.

**SNAPDRAGON.**—See page 72.

**VERBENA, New Mammoth.**—The Verbena is, next to the Geranium, the most popular of all bedding plants. The New Mammoth strains are noted for their robust growth and immense flowers. Separate or mixed colors. 3 for 25c; doz. 60c.

**ZINNIAS.**—The most popular bedding plant of the day. The large handsome flowers are produced in profusion all summer and fall. New Giants in all popular colors or superb mixed. 3 for 25c; doz. 60c.

ZINNIAS.—The most popular bedding plant of

the day. The large handsome flowers are produced in profusion all summer and fall. New Giants in all popular colors or superb mixed. 3 for 25c; doz. 60c.

**PRIDE OF PORTLAND.**—A beautiful single variety. Large fringed blooms of a soft bright pink.

**GIANTS OF CALIFORNIA.**—Large ruffled and fringed flowers in great variety of colors and markings. All colors mixed. 15c each, \$1.50 doz.

# BEAUTIFUL ORNAMENTAL FERNS, PALMS, ETC.

**OSTRICH PLUME** (See cut).—The fronds of this popular variety are the most delicate and plume-like. They are beautiful, full and fluffy, well-grown plants; are truly magnificent and last well in the house.

Choice plants, 25c to 50c, postpaid

Specimen plants in pots, \$1.25 to \$3.00

**BOSTON FERN**.—One of the most beautiful; of easy culture, sword-like fronds; produced in a bewildering mass, arching, curving and interlacing in every conceivable direction.

Choice plants, 25c to 50c, postpaid

Specimen plants in pots, \$1.00 to \$2.50

**ASPARAGUS SPRENGERI** (Emerald Feather).—Of drooping or trailing nature, valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green, feathery foliage; very hardy.

Choice plants, 20c to 35c, postpaid

Specimen plants in pots, 50c to \$1.25

**ASPARAGUS PLUMOSUS** (Climbing Lace Fern).—Very popular, hardy and easily grown. Very satisfactory for window and house culture. Extremely graceful; bright green, feathery foliage, as fine as the finest silk or lace.

Choice plants, 20c to 35c, postpaid

Specimen plants in pots, 50c to \$1.25

## KENTIA PALM

A beautiful, graceful, handsome looking, strong growing palm. One of the most popular for home culture. If we could have but one palm, it would be a Kentia. Not mailable.

Choice plants in pots, 18 in. to 24 in., \$2.50-\$3.00.

Specimen plants, \$5.00 to \$15.00.



Ostrich Plume in a Fancy Jardinier  
(Specimen Plants by Express Only)

## RUBBER PLANT

Very popular and easily grown. Its glossy, thick, dark-green leaves are not affected by dust or gas. Choice plants in pots (not mailable), 15 to 18 in., \$1.50; 2 foot up, \$2.00 to \$5.00 and up.

## REX BEGONIAS

One of the most ornamental of window plants. Very popular and easily grown.

Prices: 35c each; 3 sorts, 75c, postpaid; large plants in pots (not mailable), 75c to \$1.00.

# FINE FLOWERING HOUSE PLANTS

**GENISTA, Racemosa**.—A highly ornamental plant that grows thriflily with ordinary care, flowering so freely as to literally cover the plant with its rich golden yellow flowers. Very popular for Easter decorations, at which time it is usually a mass of bloom. 25c each.

**SWAINSONIA, Gaiegifolia Alba**.—A most desirable ever-blooming plant, with pure white flowers, produced in sprays of from 12 to 20 flowers each, the individual bloom resembling a sweet pea. 25 cents each.

**CYCLAMEN, Giant Persian**.—These are among the most beautiful and interesting Winter and Spring flowering bulbs for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental, consequently they are very decorative, even when not in bloom. There are no plants better adapted for pot culture, and few that produce such a profusion of bloom. Price: Young plants for blooming next Winter, 25 cents each; 3, all different, 65 cents.

**PRIMROSE, Giant Obconica**.—The freest flowering plant we know of, blooming continuously throughout the entire season. Plants in small pots have from 15 to 20 sprays of large lavender flowers on stems 10 to 12 inches high at one time, lasting in bloom fully four weeks without fading, and continually sending new sprays all over the plant, making it one of the most desirable plants for the house ever introduced. Lavender, Pink, White or Red. Price, 25 cents each; extra large plants in bloom, 40 cents each; large plants in pots by express only \$1.00.

**ORANGE, Otaheite**.—A dwarf-growing orange which grows, blooms and fruits freely in pots, even when only a few inches high. The fruit is about half the size of an ordinary orange, and ripens throughout the year. Flowers very sweet scented, and produced with great freedom. 25 cents each; larger plants, 50 cents to \$1.00 each.

**IMPATIENS HOLSTI**.—One of the prettiest and most satisfactory house plants for winter blooming as well as a charming feature of the summer garden. Bears profusely brilliant vermillion colored flowers against a rounded background of glossy green leaves. 20 cents each.



Primrose

## FLOWERING PLANT COLLECTIONS

On this and the two following pages we offer plant collections grown especially for our out-of-town customers. All orders for these plants are sent direct to the greenhouse where they are gathered, packed and wrapped with special care so they will travel in safety by parcel post. Every plant is carefully labeled. Order any time; we'll send "in season."

### 1929 COLLECTION—TWELVE GRAND SINGLE GERANIUMS

Price 20c each; set of 12 varieties, \$2.00 postpaid



**ALBION.**—Beautiful free flowering white variety, as pure in color as driven snow. Always in bloom.

**EUGENE SUE.**—A rare color; russet orange, yellow and salmon-red.

**EMANUEL ARENE.**—Rich, dark, velvety crimson maculated orange-red on upper petals.

**GABRIEL MONTAYA.**—Large round full florets in splendid trusses. Color a striking shade of reddish-purple. Very distinct and attractive.

**GENERAL GRANT.**—A splendid bright scarlet bedding variety. A mass of flowers all through the season.

**JACQUERLE.**—Rich, vivid crimson; immense trusses. Excellent for bedding. Blooms freely.

**METEOR.**—A continual bloomer of a brilliant crimson red flower; dwarf, compact habit.

**MILDRED RIVAL.**—Pure rose-pink, with conspicuous white blotch on two upper petals.

**MRS. A. BLANC.**—Silvery salmon shaded peach and apricot. One of the richest colored sorts.

**MRS. E. G. HILL.**—Very large trusses; color clear salmon, with a white center; excellent.

**ROSAMINE.**—Old rose, pink, flued violet and maculated with white. Very distinct.

**TIFFIN.**—Brilliant light scarlet flowers in fine large trusses, produced freely all season.

### BEAUTY COLLECTION—TWELVE GRAND DOUBLE GERANIUMS

Price 20c each; set of 12 varieties, \$2.00 postpaid

**Alphonse Ricard.**—Rich, velvety scarlet, extra large and brilliant.

**Beaute Poitevine.**—Very large semi-double flowers of a brilliant salmon color.

**Edmond Blanc.**—Rich purple-violet flowers borne in great freedom. Distinct and beautiful.

**Fleur des Gardine.**—Bright orange-scarlet flowers in large numbers. Fine grower and free blooming.

**Jean Vaud.**—Soft rose color shaded to white. Immense flowers in large trusses. Magnificent variety.

**Madame Landry.**—Rich, bright apricot, shaded with orange; very large trusses.

**Madame Recamier.**—Ivory white flowers in very large trusses. Strong, healthy grower.

**Mrs. Lawrence.**—Lovely satiny pink, shaded to white; its delicate color is delightful.

**Marquise de Castellane.**—Rich solferino-pink. Immense trusses. Very brilliant and attractive.

**S. A. Nutt.**—The best of the rich, dark crimson varieties; very popular.

**Scarlet Bedder.**—Rich, bright scarlet; fine large trusses, borne in great freedom.

**Thos. Meehan.**—Rich, purplish rose color, upper petals marked with orange. Rare.

### BEAUTY COLLECTION CHOICE FUCHSIAS

This graceful class of plants make especially fine subjects for house culture as well as for planting in the garden. They are almost continuous bloomers and are very easily raised. The single varieties are the most floriferous, while the double sorts bear the larger flowers.

PRICE 20c EACH; COLLECTION OF 6 SORTS, \$1.00



Fuchsia

**Annie Earle.**—Tube and sepals waxy white, corolla single, clear carmine; plant splendid and free blooming.

**Beauty of Exmouth.**—Rich purple corolla streaked scarlet at base. Scarlet sepals. Double flowered.

**Black Prince.**—Single violet rose corolla with carmine pink sepals. Large pendant flowers in great freedom.

**Montrosa.**—Graceful double white flowers in great profusion. Truly everblooming.

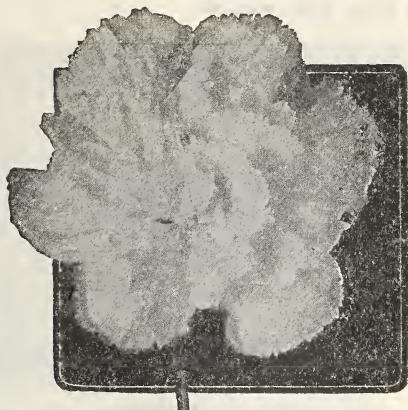
**Swanley Gem.**—Single purplish mauve corolla. Sepals deep red. Long narrow bloom.

**Sylvia.**—Large double corolla, pure white veined scarlet. Sepals scarlet. One of the best of its color.

USE "MARVEL"—The best Fertilizer and plant food known. A teaspoonful to a plant does wonders. Descriptive pamphlets on request. See page 37.

## CARNATION PLANTS

For beauty, fragrance and abundance of flowers, for its hardiness, easy culture and adaptability to outdoor or indoor cultivation, no plant excels the ever-blooming Carnation.



## Wonder Collection Carnations

Price 20c each; 10 for \$1.75, postpaid

We have selected the varieties in this collection with much pride to ourselves, believing that we are giving to our patrons a set of Carnations which for general planting cannot be excelled. All have flowers of large size, strong and healthy growth and very free-blooming qualities.

- Alice.—Delicate flesh pink; very sweet.
- Aviator.—Rich, bright scarlet.
- Belle Washburn.—Deep brilliant scarlet.
- Bonora.—White, flaked with scarlet.
- Enchantress.—A superb flesh pink.
- Matchless.—Pure white flushed pearl.
- Mrs. C. W. Ward.—Bright, glistening pink.
- Pocahontas.—Crimson maroon.
- White Enchantress.—A beautiful white.
- White Wonder.—Glistening pure white.

## 1929 COLLECTION GIANT JAPANESE CHRYSANTHEMUMS

Price 20c each; sets of 12 sorts, \$2.00 postpaid

Betsy Ross.—Globe-shaped, grand size and texture. Pure glistening white.

Bronze Queen.—Rich golden bronze. Fine incurving petals, freely produced.

Brutus.—Rich chestnut red, reverse of petals gold.

Chrysolora.—One of the finest yellows. Large, incurved flowers of elegant form.

Chieftain.—A beautiful broad-petaled, incurving flowers, delicate silvery pink.

Early Frost.—Pure snowy white flowers of incurved form.

Golden Glory.—Large incurved, rich golden yellow color.

Oconto.—Popular variety, pure white, early.

October Rose.—Soft rose pink, flowers of fine size and splendid form. Strong grower.

Rose Chocard.—Large perfect incurved flower; rose pink.

White Chieftain.—Compact incurved flowers of elegant form and nice size; pure white.

W. H. Waite.—Deep bronze, shaded gold, incurved.



## GLORY COLLECTION NEW ENGLISH GARDEN CHRYSANTHEMUMS

To those persons who have planted the late flowering sorts and failed to get them into bloom before frost, these new imported sorts will appeal. All will flower ready in the garden during September and October. Flowers smaller than above, but prettier for bouquets.

Price 20c each; full collection of 12 sorts, \$2.00 postpaid

Camille Bernadine.—Large, fluffy flowers of violet and carmine color, shaded with white.

Chaldrone.—Ruby red, flushed with chamois and gold. Early and free.

Champagne.—Rich red, tipped with gold. Dwarf growing and very free.

Cranford White.—Snowy white flowers of beautiful form. Nice dwarf grower and free blooming.

Glory of Seven Oaks.—Deep golden yellow, very free flowering. Excellent dwarf habit.

Groacher's Crimson.—Large, handsome flowers of a rich shade of crimson. Blooms very early.

Henry Vincent.—Rose-pink flushed with silver. Very free.

Le Pactole.—Rich, bright yellow. Blooms in great profusion. One of the best of its class.

Mignon.—Rosy pink, shaded silvery. Strong, vigorous grower and very free.

Queen of Whites.—Showy white flowers cover plant early in the fall. A gem in the garden.

Source de Or.—Tawny red flushed with bronze and chamois. Narrow tubular petals almost like a cactus dahlia.

Wolverine.—Golden yellow flowers. Dwarf and sturdy growing. Makes a nice pot plant for the window.

## BEAUTIFUL FLOWERING BEGONIAS

Probably the most satisfactory class of plants for house culture obtainable. Of easiest possible culture. The waxy flowers produced in much profusion, together with their handsome foliage, makes them most desirable subjects for the window garden.

Price 20c each; full collection of 6 for \$1.00, postpaid

Bertha Chaterrocher.—Covered all the year with bright scarlet flowers; handsome green foliage. A fine house plant.

Alba picta.—Pretty ovate shining green foliage myriads of pure white flowers; bushy growth. Fine pot plant.

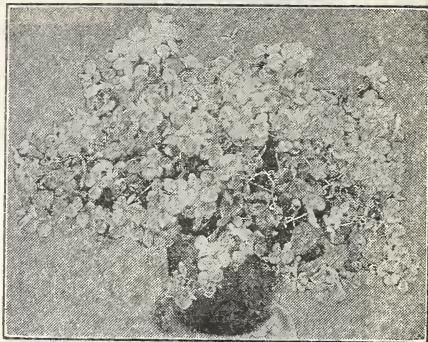
Foliosa.—The freest-flowering Begonia we have; makes a handsome window plant; bright pink flowers, glossy green foliage.

Gloire de Chatelaine.—Glossy green ovate leaves, flowers pink, heavily bordered with rose pink. A grand new variety from France.

Marguerite.—Foliation bronzy green, with purple cast on under side. Large, pure white flowers in good size panicles.

Sandersoni.—Coral pink flowers in large clusters with deep sea-green foliage of waxy texture. Splendid window plant.

REX BEGONIAS.—See page 69.



Gloire de Chatelaine

## NEW ENGLISH SNAPDRAGON

Anthirrhinum.—These new varieties grow about 1½ feet high and flower continuously all summer. The flowers are closely set in large spikes and cover a wide range of color. Snapdragons are one of the very best bedding plants and are very popular at present. They can be planted annually like geraniums but are hardy west of the Cascades and will thrive the second year outside.

Prices postpaid.—SIX CHOICE NAMED SORTS each of a different color, 75c. CHOICE MIXED unnamed, \$1.00 dozen.

## TRAILING AND CLIMBING PLANTS

PRICES.—Your choice 20c each; six for \$1.00

Vinca Variegata.—Glossy green leaves, variegated creamy white.

Campanula Isophylla Alba (Creeping Charley or Falling Star).—Splendid old-fashioned trailing plant. Flowers pure white, about half inch in diameter and produced with great freedom throughout a large part of the year. 25c each.

German Ivy.—Waxy green leaves, strong growing vine for window and porch boxes or for hanging baskets.

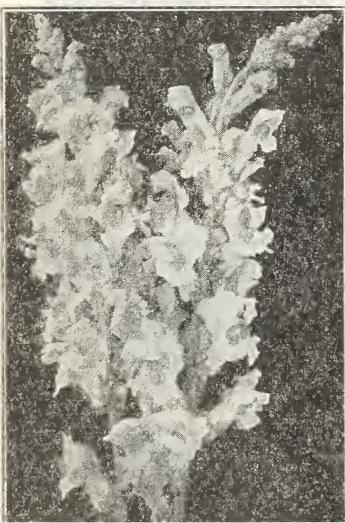
Nepeta Glechoma Variegata.—The variegated ground ivy. Well known trailing plant with green and white foliage.

Lantana Delicatissima.—The Weeping Lantana. Lilac pink flowers all season.

Mesembryanthemum Spectabilis.—Quillid shaped, succulent leaves with large single thistle-like cerise pink flowers; blooms all summer.

Tradescantia (Wandering Jew).—Good vase and basket vine. Two sorts, green leaved and pink variegated

Lobelia (Dwarf for borders or Trailing for boxes or basket).—Dainty blue flowers. 3 for 25c; 60c dozen.



SNAPDRAGON

Lobelia Trailing.—Dainty blue flowers.  
3 for 25c; Doz. 60c

## LANTANAS

Lantanas are showy bedding plants flowering all through the season and until cut down in the fall by frost. They withstand the hottest sun and dry weather remarkably well. Our collection includes only the newer dwarf sorts with highly colored umbels of flowers. The Lantanas are especially useful for borders for large beds of Cannas or Geraniums.

Price 20 cents each. Set of 6 sorts \$1.00

Ameil.—Richly colored sort with umbels of little florets orange-red on the outer edge and golden yellow in the center. Covered all summer with its brilliant flowers. A gem for bedding.

Courbeille d'Argent.—A free blooming pure white sort. Dwarf and compact grower. Never out of bloom.

Countess Biencourt.—Bright rose-pink, each floret centered with primrose-yellow. Each floret with orange-yellow throat. Chaste and beautiful.

Jaun de Or.—Large umbels of sulphur-yellow flowers changing to a beautiful pink with age. One of the most beautiful sorts.

Radiation.—Brilliant umbels of bronzy red florets with golden yellow centers. Very bright and attractive.

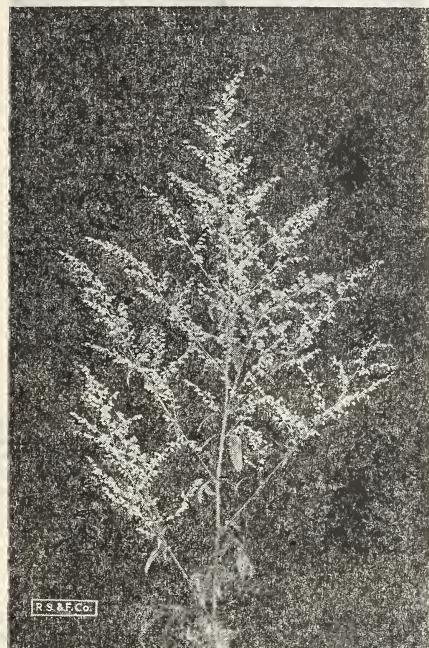
Tethys.—Sulphur-yellow with golden yellow throat in each floret. Entirely distinct from all other sorts. A gem for bedding.

# HARDY PERENNIAL FLOWERING PLANTS

No class of plants enjoy greater popularity at the present time than the Hardy Perennials. They have made rapid strides into public favor the past few years, until now they may be considered to have a prominent and a permanent place in our American gardens. Once planted, they require very little care, increasing in size of plant and profusion of bloom from year to year. Most varieties can be taken up, divided and reset every third year.

**LARGE STOCKS—LOW PRICES.**—We are in a position to supply unlimited quantities at special prices and you will find our plants are strong and well rooted. Our prices must not be compared to many lists, for our plants are all hardy, field grown, worth double the average stock sold. Limited space will not permit us to list all varieties we can supply.

Ask for any special varieties wanted  
**PRICES.**—All prices postpaid—10 times the each price is dozen price  
 Express or call orders 5c each or 50c doz. less.



R. S. &amp; F. Co.

Artemisia (single stem)

## Anemone

**JAPANESE.**—These beautiful Windflowers are one of the most important hardy plants. They begin blooming early in August and continue in full beauty until cut down by hard frost. Excellent for bouquets, lasting for days when cut; 2½ to 3 feet. Each 30c; collection of 3 kinds 75c

**WHIRLWIND.**—Best large pure white, semi-double.

**QUEEN CHARLOTTE.**—Lovely flowers, beautiful pink.

**RUBRA SUPERBA.**—Lovely rosy-red; large, free flowering.

## Alyssum

**GOLD DUST (Saxatilis Compactum).**—Large heads of golden yellow flowers in May and June; silvery foliage; fine for rockeries; 10 to 12 inches.

Each 25c; 3 for 60c

## Aquilegias

The Columbines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising two feet or more above the beautiful divided foliage, and are highly prized for cutting; June to September.

**MIXED.**—Very choice. Each 30c; 3 for 75c

**PRICES.**—Ten times the each price will be the dozen price. All prices postpaid.

**Artemisia Lactiflora**  
 Elegantly cut, dark green foliage, with many long-stemmed sprays or panicles of Hawthorn-scented, creamy white Spirea-like flowers. In bud they look like tiny pearl beads. They work in nicely with other cut flowers. August and September. 4 to 6 feet (see cut).

Each 35c; 3 for \$1.00

## Asters—Hardy, Fall Flowering

**Michaelmas Daisies.**—Among the showiest of our late-flowering, hardy plants, giving a wealth of bloom during September and October. They grow freely in any soil. Fine for cutting; 3 to 6 feet. LAVENDER, WHITE, ROSE and BLUE.

Each 20c; doz. \$2.25

## Ameria

**SEA PINK OR THRIFT.**—Dwarf plants with 9-in. wiry stems of rosy pink flowers from early until late. Very hardy and useful in the rockery.

Each 25c; doz. \$2.50

## Arabis

**Rock Cress.**—One of the most desirable of the very early spring flowering plants for edging and the rock garden. Forms a dense carpet, completely covered with pure white double flowers; 6 inches.

Each 20c; doz. \$2.00

## Bellis Perennis

**ENGLISH DAISY.**—Popular early flowering plants. Very pretty for small borders.

Double Red or White. Each 20c; doz. \$2.00

**MAMMOTH.**—Extra large flowers in White or Pink only.

Each 25c; doz. \$2.50

## Coreopsis

**LANCEOLATA GRANDIFLORA.**—Popular hardy plants. The flowers are a rich golden yellow, of graceful form and invaluable for cutting; June; 1½ feet.

Each 25c; 3 for 65c

## Cantebury Bells

(Campanulas—or Bellflowers)

One of the most popular hardy garden plants on account of the beautiful clusters of long-stemmed, dainty yet large flowers. They are very showy. The "Calycanthema" are only "biennials."

**CALYCANTHEMA (Cup and Saucer Canterbury Bells).**—A beautiful form of this favorite flower. (See cut, next page.)

Blue, Rose or White. Each 25c; doz. \$2.50

## Chrysanthemums

**Hardy Garden Sorts.**—We offer four colors. Field-grown plants. YELLOW, RED, PINK or WHITE.

Each 25c; 4 for 85c

**FOR NAMED JAPANESE AND ENGLISH SORTS**  
 see page 71.

## Doronicum

One of the most effective and very early spring flowering perennials, growing about 2 feet high, producing a profusion of Marguerite-like golden yellow flowers of much beauty and elegance. It is a splendid flower for cutting.

Each 20c; doz. \$2.00; Large 30c

## Digitalis

(Foxglove)

Old-fashioned, hardy, desirable plants with broad foliage and showy flowers borne on spikes. June and July; 4 to 6 feet. Each 25c.

## Hardy Perennial Flowering Plants—(Continued)

### Delphinium

#### (Hardy Larkspur)

These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly prepossessing plants of easiest culture; perfectly hardy; 4 to 6 feet. Fine for cut flowers, June to November; when the first blooms are faded, cut all foliage close to the ground and a second crop will come. (See cut.)

CHOICE MIXED, all shades.

Each 20c; doz. \$2.00

**GOLD MEDAL HYBRIDS.**—Unquestionably the finest strain of hybrids from the best named varieties. Very large, two-foot flower spikes, in beautiful shades of lavender, light and dark blue.

Each 25c; doz. \$2.50

**BELLADONA.**—A free and continuous bloomer; flowers clear turquoise blue; very beautiful; long flower spikes.

Each 25c; doz. \$2.50

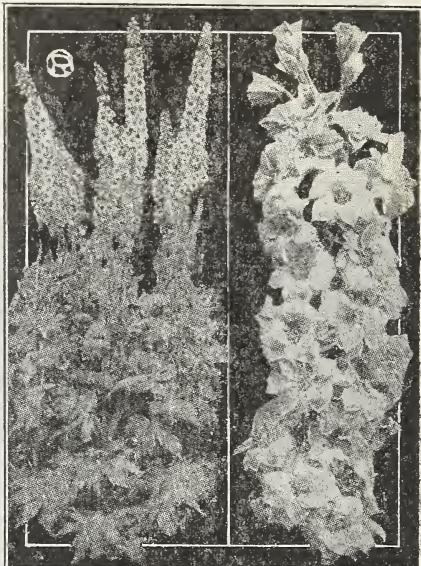
**BELLAMOSUM.**—Same as above; rich deep blue.

Each 25c; doz. \$2.50

**FORMOSUM.**—Dark blue, white centers; an old favorite; 3 to 4 feet high.

Each 25c

**GIANT ENGLISH VARIETIES.**—(See cut page 53.) Choice plants raised from our Prize Winning English Giants, each 50c. Field clumps, large, each \$2.00.



Delphinium (Plant and Flower Spike)

### Geum

A showy border plant, growing about 18 inches high and producing all summer and fall brilliant double scarlet flowers in large clusters. This new variety is a fine advance from the older sorts heretofore grown. We consider this the finest red flowering hardy plant.

**MRS. BRADSHAW, Double.**—Scarlet 25c.

**LADY STRATHEDEN,** golden yellow, 25c.

### Gypsophila (Baby's Breath)

Fine, delicate foliage. Minute white flowers borne in enormous quantity in open panicles during summer months. Be sure and have a few plants of this for cutting, as it works up beautifully in bouquets of other flowers; 3 to 4 feet.

**PANICULATA.**—Good roots 25c; extra large 35c.

### Helenium

Hardy perennials, bearing in profusion during summer and fall, beautiful flowers for display or cutting. Your choice, each 25c.

**AUTUMNALE RUBRUM.**—Robust grower, bright terra cotta red flowers; 3 feet.

**AUTUMNALE SUPERBUM.**—Massive spreading heads of deep golden yellow flowers; 5 to 6 feet.

**RIVERTON GEM.**—Old gold changing to wall flower red. August and September; 4 to 5 feet.

### Heuchera

**SANGUINEA (Coral Bells).**—A compact bushy plant of robust constitution and easy culture, bearing during July and August graceful sprays of coral-red flowers in great profusion. Fine for cutting.

Each 25c; doz. \$2.50

### Hypericum (St. John's Wort)

**GOLD FLOWER.**—Of drooping, trailing nature. Fine for rockeries, etc. Free flowering. Rich golden-yellow; beginning in June.

Each 20c; doz. \$2.00

### Hollyhocks

**DOUBLE OR SEMI-DOUBLE, in WHITE, PINK, SCARLET, YELLOW, or MIXED.**

Each 25c; doz. \$2.50



Campanula—Calycanthema

### Forget-Me-Not

#### (Myosotis)

**PALUSTRIS.**—A variety that is hardly ever out of flower; useful in a shady spot in the border.

Each 25c; doz. \$2.50

### Gaillardia

#### (Blanket Flower)

Among the showiest and most effective of perennial plants, blooming continually from early summer on through the season. Grows 2 feet high. Flowers about 3 inches across, dark red in center with rings of crimson and vermillion encircling same on a golden yellow ground.

**GRANDIFLORA.**—Each 25c; 3 for 60c.

**PORTOLA HYBRID, NEW.**—A superb new strain, bears flowers of much larger size on long upright stems, the color ranging through shades of bronzy red shading to golden yellow. Splendid new cut flower.

Each 35c; 3 for \$1.00

NOTE.—Ten times the each price is the dozen price. Prices prepaid.

NOTE.—25c Plants are \$2.50 doz.; 30c, \$3.00 doz. See note top page 73.

### Helianthus

**SPARSIFOLIA.**—A rare variety of Sunflower growing 5 to 6 feet high and producing rich golden yellow single flowers 5 or 6 inches in diameter. Blooms over a long season of time. One of the finest hardy plants in existence.

20c each; \$2.00 per dozen

### Iberis

**HARDY CANDYTUFT** (*Semperflorens*).—Pure white flowers, March to June; 8 to 12 inches; fine for edging.

Each 25c; doz. \$2.50

### Lavender

**VERA.**—The true, sweet fragrant lavender. Flower stems always in demand.

Small plants 20c; large plants 25c to 50c each

**MYOSOTIS.**—See For-get-me-not, page 74.

### Phlox

Among the hardy perennial plants no class is of more importance than the Phlox, succeeding in almost any soil and position, and flowering through a long season. Excellent for cutting and decorating or for mass effects.

#### Prize Collection Phlox Plants

Your choice, select plants, each 25c; doz. \$2.50.

**Athis.**—Light salmon, violet eye; tall.

**Antonin Mercie.**—Light lavender, dwarf.

**Baron Von Dedem.**—Deep pink, suffused orange.

**Beacon.**—Brilliant cherry-red, showy flower.

**Diadem.**—A stately pure white. Wonderful.

**Eclaireur.**—Brilliant rose magenta. Tall.

**Goliath.**—Bright cerise with a darker eye.

**HONDU.**—A lovely soft pink white halo.

**Helen Lockwood.**—Extra large trusses on tall stems. Color bright crimson.

**Millie Von Hoboken.**—Rose-pink shaded with salmon; deep eye.

**Miss Lingard.**—Waxy white, large blooms.

**Selma.**—Delicate light pink, beautiful.

#### Superb Collection Phlox

New, rare; magnificent flowers. Your choice, 30c each, \$3.00 doz.

**B. Comta.**—Rich Burgundy red with a satiny sheen; beautiful and distinct.

**Deutschland.**—Brilliant dark orange scarlet; very large trusses.

**Evelyn.**—Lovely soft pink; large flowers of perfect form.

**Lavender Queen.**—Large spikes of dark lavender; an unusual shade; almost sunproof.

**Europa.**—One of the finest white phlox with a distinct carmine eye. Large flowers.

### Creeping Phlox

**SUBULATA** (Moss Pink).—Early spring, moss-like evergreen foliage. Excellent for rockery.

**WHITE, LILAC or ROSE-PINK.** Each 25c

### Pyrethrum

**Persian Daisy.**—One of the most valuable of our early summer flowers; charming shades of color, and wonderful lasting properties as a cut flower; they flower in May and June.

**SINGLE; MIXED.**— Each 25c; doz. \$2.50

**HYBRIDIUM FL. PL.**—New strain of double and semi-double flowers in new colors, blooms early and late; superb. Each 35c



Hardy Phlox

### Poppy

**NUDICAULE** (Iceland Poppy).—A beautiful class of hardy poppies. Flower stems about a foot in height, bearing elegant cup-shaped flowers, ranging in color from white to scarlet, but most valuable in the yellow and orange shades. Valuable for cut flowers, lasting well when cut.

**Iceland, Mixed, All Colors.** Each 25c; doz. \$2.50

**ORIENTAL.**—Fine subjects for massing or planting singly in the hardy garden; 3 feet. They make a wonderful show when in bloom. May and June.

**Goliath.**—Large, bright scarlet.

**Oriflamme.**—Gorgeous orange-scarlet.

**Salmon Queen.**—Delicate salmon pink.

### Pentstemon

**ENGLISH EXHIBITION.**—A splendid strain of this popular hardy plant with large spikes of bloom in a wide range of color from white to dark red. Mixed Colors Only. Each 25c; doz. \$2.50

### Primrose Primula

**ENGLISH PRIMROSE.**—Pretty low growing plants bearing large numbers of beautiful flowers very early in the spring and having the old-fashioned cowslip fragrance so dear to the heart of every Englishman. The flowers are in a wide range of rich colors from golden-yellow to deep crimson maroon.

#### SEPARATE COLORS

**Vulgaris**—Single, canary-yellow. Each 25c

**Glencoe.**—Single, long stems, large clusters of flowers, burnt orange, yellow eye. A new, rare color. Each 35c

**Lavender.**—Double flowers, lovely. Each 20c

**White.**—Double flowers, very fine. Each 30c

**Mixed Hybrids.** Each 25c; 5 for \$1.00

### Rudbeckia

(Golden Glow)

Flowers beautiful golden-yellow; very double. Marvelous continuity of bloom from June till late fall; 6 to 8 feet. Small plants 25c; large 35c

**FEED YOUR PLANTS.**—You must supply "feed," in other words, fertilizer, if you want the best results. Read about "Marvel" and "H. Q.," pages 37-38.

PRICES.—All prices postpaid—10 times the each price is dozen price. Express, freight and call orders 25c less in dozen lots.

### Saxifraga

**UMBROSA** (London Pride).—A low-growing, spreading sort, throwing up slender stems a foot high of pretty pink flowers in dainty clusters; small, dark evergreen leaves. A fine border for banks or rockeries. Each 20c; doz. \$2.00

**MEGASEA**.—Very hardy, flowers rose-pink; leaves broad, round, deep green; 1 foot. Pretty flowers; very early. Each 25c; doz. \$2.50

**TUNICA**.—Flowers soft pink, blooms all summer. Fine for rockery. Each 25c

### Shasta Daisy

Very large daisy-like flowers, often measuring 4 to 5 inches across, having three or more rows of petals of the purest white. Flowers produced in great profusion on long strong stems. Very popular; 2 to 3 feet.

Each, small 20c; \$2.00 doz.; large 25c  
Clumps 35c to 50c

### Scabiosa

**CAUCASICA**.—A choice hardy plant, thriving in any situation and producing fine umbels of beautiful lavender-colored flowers all season through; flowers very lasting, admirably adapted for cut flower purposes; grows 18 inches high. One of the finest perennials. Each 35c; 3 for \$1.00

### Saponaria

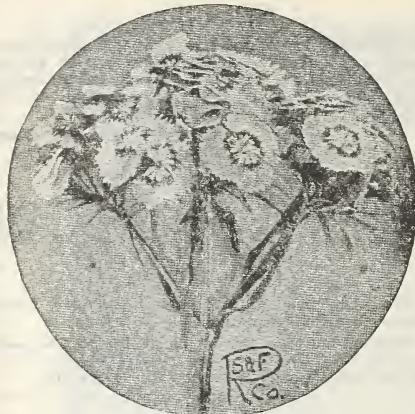
**SOAP WIRT** (Ocymoides).—Dwarf, fine leaved, with small bright pink flowers from May to August. 8 inches. Fine for rockery or edging.

Each 25c; doz. \$2.50

### Sweet Williams

They produce a wonderful array of vivid colors in fancy patterns. Flowers in flat clusters, very showy and effective; 18 inches; are at their best during June and July.

**ENGLISH VARIETIES**.—Mixed. Each 25c  
**NEWPORT PINK**.—Rose pink. Each 30c



Sweet William

### Tritoma

**FITZERI**.—The ever-blooming Flame Flower or Red Hot Poker. Immense spikes of rich orange-scarlet flowers standing three to four feet high, produced all summer long. Low growing, rush-like foliage. Produces a grand effect either planted singly in the border or in masses. Each 35c

### Valeriana

**GARDEN HELIOTROPE**.—Desirable plant (3 ft.). Its snowy heads of flowers are cut as soon as they fade; it will bloom most all summer.

**COCCINEA RUBRA**.—Rose-pink flowers.

Each 25c

### Veronica

**RUPESTRIS**.—A fine rock plant, growing 3 or 4 inches high, thickly matted deep green foliage, hidden in spring under a cloud of bright blue flowers. Each 25c

### Viola

**VIOLA JERSEY JEM**.—New and best in its class. Flowers large, nicely ruffled; continuous bloomer. A real beauty. Violet blue. Strong plants.

Each 35c; doz. \$3.50

### Violets

Price 20c Each; 6 Sorts \$1.00

**LADY HUME CAMPBELL**.—Large double blue.

**CALIFORNIA**.—Single, deep violet blue.

**PRINCESS OF WALES**.—Flowers single, of gigantic size; color, a very rich shade of blue.

**PEACOCK**.—Charming variety; has lovely flowers of white, shaded with light blue.

**DOUBLE RUSSIAN**.—Double rich purple flowers.

**MARY D. EVANS**.—Beautiful, double, lavender.

### Wall Flower

**DOUBLE ENGLISH**.—A fine old hardy garden plant seen in every English garden. Grows about 18 inches high and produces early in the spring, rich colored spikes of bloom in various shades of yellow and brownish red.

Yellow, Red or Crimson.

Each 25c

Mixed, all colors.

Each 20c; doz. \$2.00



Tritoma

FOR BEST RESULTS, plant these hardy perennials in the fall or early in the spring before new growth gets too far advanced.

## GERMAN IRIS (Germanica)

These are among the most desirable and easiest grown of our spring flowering hardy plants, producing in May and June their showy flowers of exquisite coloring, combining the richest and most delicate tints. We offer only new, improved kinds.

**ALCAZAR**—Very large flowers. S. deep lavender violet. F. Dark red violet. Each 35c

**MANDY PERRIER**—Extra choice. Large flowers on tall stems. S. Lavender flushed amber yellow. Falls, Lobelia violet. Each 35c

**QUEEN CATERINA**—Huge blooms, exquisite shade of lavender blue. Each 35c

**RING DOVE**—Large lavender pink. One of the best to bloom. Each 35c

**LENT A. WILLIAMSON**—Magnificent, standards, violet, falls rich royal purple. Each 35c

**ORIFLAMME**—Giant blooms. Purple, blue and violet. Each 30c

**PERFECTION**—S. light blue. F. dark velvety violet; very handsome. Each 30c

**DALMATIC-A-VARIEGATIS**—Variegated foliage; very attractive flowers; lavender, delightfully fragrant. Each 35c; small clump 75c



Dalmatica  
Follis Variegatis

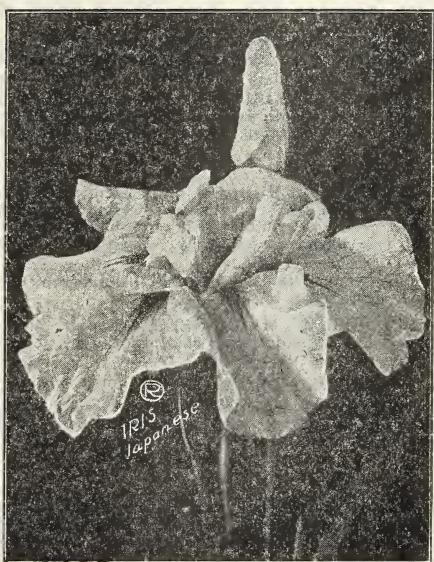
## DUTCH IRIS (Hollandia)

These are best described as a giant strain of the Spanish Iris, with large flowers having broader petals. Vigorous growers; excellent stems. They bloom two to three weeks earlier. Their beautiful flowers in charming color combinations rival the Orchid. We offer five choice colors. Named Colors: Each 10c; doz. 90c; Dutch Mixed, all Colors, doz. 75c.

## SPANISH IRIS—Hispanica

One of the most satisfactory varieties of Iris to grow, being very hardy and equally good for forcing indoors or garden culture. The flowers are of great beauty, and if cut when in the bud will last a long time in water.

Five named colors for 40c; doz. 85c. Spanish mixed, all colors, doz. 70c.



Japan Iris

## JAPAN IRIS—Kaempferi

These magnificent Iris are among the most beautiful of our summer-flowering plants, and are becoming more popular each season. They commence blooming about the middle of June and continue for five or six weeks. Many of these flowers measure from 10 to 12 inches in diameter; most all are beautifully veined and with contrasting colors, producing effects that are truly marvelous. We have some of the finest varieties obtainable.

### Oriental Collection

Seven wonderful large flowering kinds of rare and rich colors. Grown under our own supervision and true to description. Strong roots, each 35c; doz. \$3.50.

NO. 1.—A rich deep crimson, mottled and marked with white. Very attractive.

NO. 2.—Navy blue with a purple center. A rich shade that will please you.

NO. 3.—A beautiful combination of colors. The attractive flowers are mottled and veined red, purple and white.

NO. 4.—Large and handsome, crimson-purple with blue shadings, blotched in the center.

NO. 5.—A lovely white beautifully marked and edged sky blue.

NO. 6.—Rich purple, overlaid with navy blue with rare orange blotches.

NO. 7.—A bright violet blue with a white center. Very lovely.

NO. 8.—A beautiful color combination. Dark violet with a yellow center.

NO. 9.—A stately flower, reddish purple, handsomely mottled and veined with white.

NO. 10.—A lovely combination of white and purple, densely veined and suffused.

NO. 11.—A large, well-formed flower. Dark lavender with yellow center.

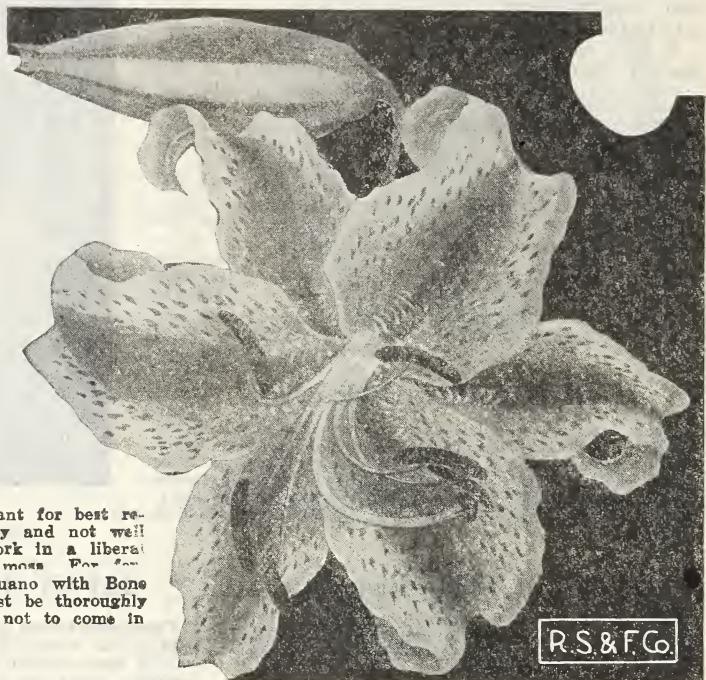
NO. 12.—Pure white petals, creamy yellow center, antlers and flower lightly veined violet.

**PEAT MOSS (soil or humus)**—We can supply in any quantity. It's NOT A FERTILIZER but improves the soil. See page 37.

## BEAUTIFUL HARDY LILIES

These are the most fragrant, beautiful and stately of all flowers produced from hardy bulbs. We list only the hardy varieties that will give planters much pleasure and happiness. Ideal locations are in the shrubbery or herbaceous border, where the roots are sheltered from the hot sun. Groups of six or more lilies of a kind, here and there in such situations are most effective. Large isolated clumps or beds of the varieties Auratum, Henryi, Speciosum, Tigrinum, etc. are also very beautiful. They should be planted 6 to 8 inches below the surface in light soils, or 4 to 5 inches below in heavy soils; in the latter case the bulbs should be surrounded by sand to facilitate drainage.

**SUCCESS WITH LILIES** is not difficult if you give proper attention to the preparation of the soil. They should be planted in a rich loose loam or sandy soil that is well drained. Lilies do not like wet feet. Well-drained soil is very important for best results. If your soil is heavy and not well drained, dig deeply and work in a liberal amount of sand and peat moss. For fertilizer use H. Q. Sheep Guano with Bone Meal, but all fertilizer must be thoroughly mixed with the soil so as not to come in contact with it.



R.S.&F.C.

Lily Auratum

**AURATUM** (The gold-banded Lily of Japan).—Strong, sturdy grower, profuse bloomer. Large open, handsome white flower, thickly dotted with crimson and a gold band through the center of each leaf. Very fragrant. Prices: Medium-sized bulbs (8-9), Each 25c; large bulbs (9-10), each 40c. Mammoth size (11-13), each 60c. (See back cover.)

**A-PLATYPHYLLUM.**—Larger than the Auratum; same type flower; color cream white, lighter band and white dots. The giant of the lily family. Very handsome.

Large bulbs 50c.. Mammoth 60c.

**SPECIOSUM RUBRUM.**—A beautiful hardy, easily grown variety; flowers; white ground, suffused deep rose, dotted with crimson, reflexed petals, free bloomer and hardy. Very popular. (See back cover.)

Large bulbs (8-9), each 25c. Mammoth bulbs, each 40c. (See back cover.)

**SPECIOSUM MAGNIFICUM.**—Similar to the above, but of a deeper, richer color, frosted white, dotted and suffused crimson red.

Large bulbs, each 60c. Medium bulbs, each, 50c.

**SPECIOSUM ALBUM.**—Beautiful white flowers of great substance with a greenish band in the center of each petal; 3 to 4-foot stems, with 8 to 12 flowers per stem. (See back cover.)

Large bulbs, each 65c.

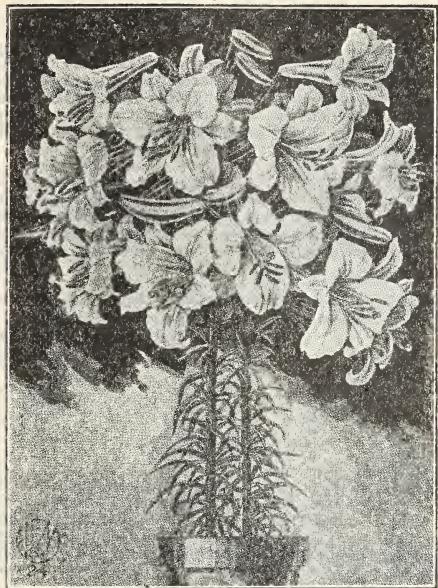
**HANSONI** (Golden Turk's Cap Lily).—A rare and fine lily. Blooms in June and early July, the flowers appearing in large clusters. Color bright golden yellow with deep brown dots. Anthers orange-red. Very hardy.

Select bulbs, each 60c.



Candidum Lily

You will be pleased with our Lily Bulbs. Much larger than most houses offer. You'll get fine flowers the first year from our mammoth size bulbs.



Regal—A Royal Lily

**MYRIOPHYLLUM or REGALE.**—A magnificent new lily from China. Grows 4 to 6 feet high, bearing handsome fragrant white trumpet-shaped flowers; flushed lavender pink outside and the lower petal tinged primrose-yellow. It is a hardy lily and is one of the finest novelties offered in many years. It will thrive, increase in size and number of flowers in any good, well-drained soil. The fragrance is delightful and fascinating, something like a "Gardenia." (See cut.)

Small blooming age, each 25c; medium 40c; large 50c; extra large 75c.

**REGAL LILY SEED** Per Pkt. 25c; oz. \$1.50; 4 oz. \$4.00; write for quantity prices.

**HENRYI** (The Yellow Speciosum).—Native of China. One of the best lilies for garden. Rich apricot yellow, free bloomer and sure to grow. Large bulbs. Each 60c. Medium 50c. (See back cover.)

**BATEMANNIAE.**—An excellent garden lily, sturdy, healthy grower. Flowers of good size; come in clusters on strong stems and are of a pale orange red or apricot. Each 40c

**CANDIDUM** (Madonna Lily).—The ever-popular, fragrant, snow-white, hardy garden lily.

Prices: Medium, 25c; large, 35c; jumbo, 50c.

**DAVURICUM.**—Native of Siberia. Flowers are borne upright in clusters of 3 to 5 and are of a rich shade of orange yellow, flushed red. (2 to 3 ft.) Each 50c.

**GIGANTEUM** (Easter Lily).—Pure pearly white, deliciously fragrant, and remarkably free bloomer. Perfectly hardy and if planted in the garden it blooms in June.

Large bulbs, each, 35c; 3 for \$1.00.

**GIANT TIGER LILY** (Improved *Tigrinum Splendens*).—Very hardy and sure to bloom. Large, single flowers, rich orange, freely marked with small black dots.

Prices, each 20c; large, 25c



Mt. Hood Lily

**DOUBLE TIGER LILY** (*Tigrinum Fl. pl.*).—Handsome double flowers on strong stems (See back cover). Prices, each 25c; extra large 35c

**UMBELLATUM GRANDIFLORUM.**—A very hardy and satisfactory early flowering lily of easy cultivation. Flowers, orange suffused with red; very showy and free flowering (2 to 3 ft.).

Each 35c

**MT. HOOD** (*L. Washingtonianum*).—A beautiful lily, native of Oregon; flower of good size, of open trumpet form; ivory white, tinted with lavender-pink; grows 3 to 5 feet high; very fragrant; perfectly hardy and will thrive in most any location in sun or shade. Few lilies surpass it. Select farm grown bulbs.

Medium, 25c; large, 35c; jumbo size, 50c.

### LILUM ELEGANS

An interesting group of early flowering lilies. The flowers are quite large but they are not tall growers, generally about 12 to 18 inches. Excellent for Rock Gardens, Garden Beds or the foreground of perennial borders. The Elegans varieties do not make large bulbs but we offer only full blooming age.

**ELEGANS ATROSANGUINEUM.**—The best of the dark red types—showing deep crimson in the center. Upright flowers. Each 50c

**ELEGANS ORANGE.**—Beautiful flowers of brilliant orange with orange red suffusion. Erect flowers. Each 40c.

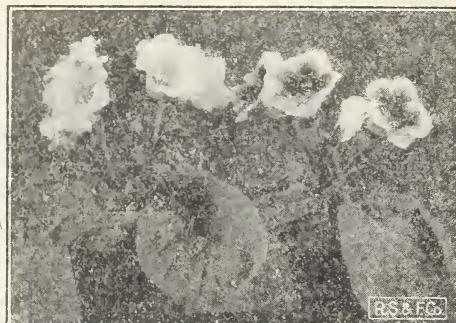
**ELEGANS PLENO.**—The double and semi-double flowers are borne erect on strong stems and are of a striking chrome orange suffused with apricot. Each 50c.

**ELEGANS SEMIPLENO.**—Large erect flowers of brilliant red with upright serrated petals edged white in the center. Distinct and a rare variety. Each 50c.

**ELEGANS INCOMPARABLE.**—Flowers bright scarlet and borne upright. Very showy and of large size. Each 50c.

**E. ALICE WILSON.**—Rich lemon yellow flowers of large size. Erect or upright in growth. An unusual color and very early (See back cover). Each 60c. . . .

In making new beds, spade deeply and mix into the soil a liberal amount of natural fertilizer and a little bone meal, also plenty of sand, leaf mold or peat moss (see page 37) if the ground is heavy, for Lilies do best in rich loamy or sandy soil that is well drained.



Gloxinias

RS &amp; FG

### GLOXINIAS

One of the most charming and effective of summer flowering bulbs for the conservatory or house culture. They produce gorgeous colored flowers in many shades of color, including white, red, purple, blue, etc., etc. The throat of each flower is usually marked with white and bordered likewise (see illustration). They do best in an equal mixture of peat, loam and sand.

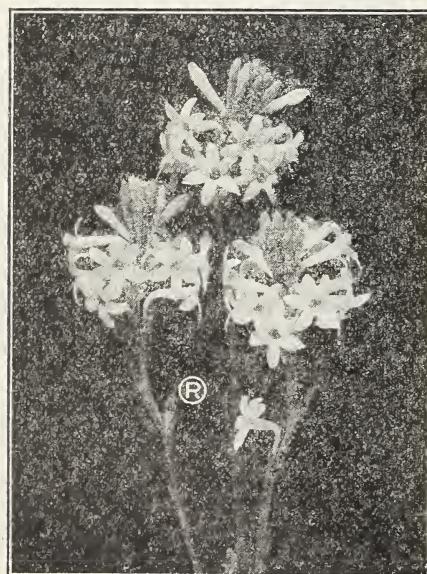
Mixed choice bulbs, each 45c; doz. \$4.50

### RANUNCULUS

Bulbs in season from October to April. Soak in water 24 hours before planting.

Among dwarf growing flowers these are unrivaled for lovely form and bright, attractive colors, ranging through gorgeous shades of crimson, white, yellow, purple, black, many of them being beautifully marked with other shades. They flower profusely during early spring and summer. They make excellent cut flowers, very graceful and attractive. Plant the bulbs claw end down about 2 inches deep, six inches apart.

GIANT FRENCH MIXED.—Each 6c; doz. 60c; 100 \$4.50.



Single White Tube Roses (from photo)

### CALLA LILIES

The Calla is one of the best winter flowering plants for room culture, needing little care beyond abundant water and an occasional washing of the leaves to keep them free from dust. Plant one bulb in a 6-inch pot. As soon as it starts growing bring to the light and heat and the result will be most satisfactory.

**YELLOW ELLITIANA.**—This new Yellow Calla is of marvelous beauty; flowers are large, rich, dark golden yellow; often 4 to 5 inches across the mouth; leaves are beautifully spotted with white. Bulbs in stock from November to May. (See cut.) Select bulbs, each 30c; 3 for 75c

**WHITE CALLA.**—The most extensively grown. Bulbs in season from September to May.

Large Choice Bulbs, 25c; 8 for 60c

Extra Large 35c; 3 for \$1.00

### ANEMONES

Bulbs in season from October to April. Soak in water 24 hours before planting.

Very ornamental hardy perennials with handsome foliage and producing beautiful rich colored flowers in spring and summer. They do best in rich soil and in sheltered and well-drained position.

**CORONARIA-DE-CAIN.**—Single mixed. A popular variety with brilliant flowers, including pink, rose, purple, lavender, violet, scarlet, crimson and white. Excellent for garden or cutting.

Each 7c; doz. 75c; 100 \$5.00

**ST. BRIGID.**—A rare and beautiful strain blooming later than Caen with double or semi-double flowers.

Each 10c; doz. \$1.00; 100 \$6.00

### TIGRIDIA

Tiger or Shell Flowers

Showy, bulbous plants suitable for the mixed border or beds, which can be handled the same as Gladiolus. They grow about 18 inches high and produce their showy flowers throughout the summer. Plant 6 inches apart and 2 inches deep.

**PAVONIA GRANDIFLORA.**—Bright crimson, center spotted yellow 20c each; \$2.00 doz.

### TUBE ROSES

(Bulbs in season from March to June)

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. The lovely clusters of sweet, white flowers are borne on long 2-foot stems, making them very desirable as a cut flower. For flowering in the garden (July to October) plant after all danger of frost is past in any good, loose, rich well-drained garden soil.

**EARLY SINGLE WHITE.**—We have tested out the different varieties and find that the Early Single White tube rose will flower very successfully here. Plant from March to June. Take up after the first frosts and keep in dry, cool cellar until the next spring.

Each 15c; doz. \$1.50

## LILY OF THE VALLEY

One of the most charming spring flowering plants, producing in profusion its delicate, bell-shaped, delightful, fragrant, white flowers. Valleys thrive in any common soil, and will do well in shady situations, where few other plants will succeed. Highly prized for cutting purposes and exceedingly well adapted for flowering in pots in the winter.

They are perfectly hardy and most commonly planted in beds or borders around the lawn, where they can remain, increase and bloom from year to year. Plant 4 to 6 inches apart in rows 12 inches apart and cover about 4 inches.

**IMPORTED PIPS.**—For forcing indoors or planting outside. Note.—In season from Nov. to March.

4 for 25c; doz. 60c; 100, \$4.00



Dicentra Bleedingheart

## MONTBRETIAS

**Beautiful—Graceful—Very Floriferous**

Quite rare and not generally known. Allied to the Gladioli. Perfectly hardy here, but should be given protection or removed where winters are severe.

They are very beautiful, bright and showy summer-flowering bulbs. Delightful for cutting for vases. Flowers freely produced on tall, slender graceful sprays. Height 18 to 24 inches. The improved varieties we offer are much larger and a great improvement over the old sorts. Plant 4 to 6 inches apart, cover 2 to 3 inches. Bulbs increase quite rapidly. (See illustrations.)

We offer six of the finest varieties. Prices: Each, 15c; 3 for 40c; doz. \$1.25.

**CALIFORNIA.**—A very fine pure yellow; good flower.

**FIRE KING.**—Scarlet-red; produces a fine flower spike.

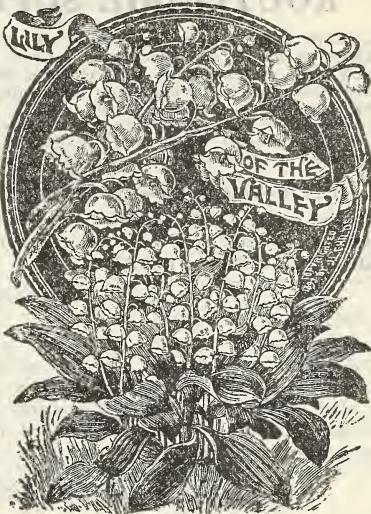
**GERMANIA.**—Very attractive and pretty; red and yellow.

**GOLDEN WEST.**—A lovely golden-yellow, extra quality flower and free bloomer.

**LORD NELSON.**—Deep orange scarlet, externally crimson, yellow eye, large flower, very beautiful.

**TALISMAN.**—Flowers a beautiful rich dark scarlet.

**SUPERB MIXED.**—12 named kinds mixed. Each, 10c; 3 for 25c; dozen, 75c; \$4.00 per 100.



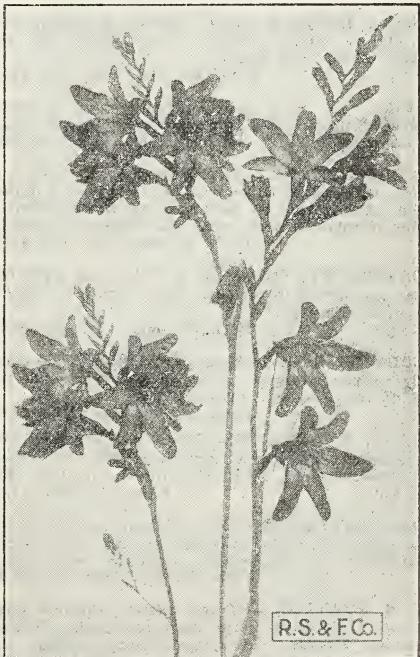
Lily of the Valley

## DICENTRA

(Bleeding Heart)

An old-fashioned favorite; its long racemes of graceful, heart-shaped, pink flowers are always attractive. Perfectly at home in any part of the hardy border, and especially valuable for planting in the shade.

Choice roots, 60c; large, 75c.



R.S. & F. Co.

Montbretias

**PEAT MOSS (soil or humus).**—We can supply in any quantity. It's NOT A FERTILIZER but improves the soil. See page 37.

# ROUTLEDGE SUPERB GLADIOLUS BULBS

The most popular and desirable of all garden bulbs. Nothing else that we know of grows and blooms so readily in any soil or climate. With ordinary care and attention they make a display in the garden unequalled by any other bulbous flower. For prize-winning blooms plant in rich soil, cultivate well and give plenty of water. Can be planted at any time from February to June 15. Plant 2 to 3 inches deep in heavy and 4 to 5 inches deep in light soil, 4 to 6 or 8 inches apart. Use "H. Q." brand Sheen Manure with a little "Marvel Q. A." Fertilizer, worked well into the top soil.

## Prize-Winners—Rare, Rich and Wonderful

We offer on this and the following three pages a most carefully selected list of the new and most beautiful sorts at greatly reduced prices. Plant liberally. **ALL PRICES POSTPAID.**

*Idaho, Oct. 24, 1928.*

Routledge Seed & Floral Co.  
Portland, Oregon

Gentlemen: Last spring you sent us Cris-tata and a double rose color begonia, also some glad bulbs. We wish you to know that we never had nicer flowers, and we have many beautiful and fragrant ones.

Yours truly,  
MRS. J. V. VAN DUYNE.

**NOTE.**—The Gladioli bulbs we offer unless otherwise specified NO. 1 TOP SIZE, 1½ inches or more in diameter. NO. 2 SIZE popular with cut flower growers are 1¼ to 1½. NO. 3, 1 to 1¼. **SPECIAL PRICE LIST** on small sizes in 100 and 1000 lots only.

**ALICE TIPLADY.**—Very popular and a brilliant orange-saffron. Graceful stems and pleasing flowers. Each 5c; doz. 50c; 100 \$3.00

**ANNA EBERIUS.**—Rich, velvety rhodamine purple, large ruffled flowers, well placed on tall spikes. Anna's a beauty. Each 6c; doz. 60c; 100 \$4.00

**ARDEN.**—An early sort producing tall, graceful spikes of flowers well placed. An attractive shade of watermelon red. Each 5c; doz. 50c; 100 \$3.00

**BENGAL TIGER.**—Handsome, large; flowers of a rich, rosy-red, with unusual markings of a darker shade. The throat is enhanced by a suffusion of golden orange. A rich, rare and pleasing variety. Each 8c; doz. 75c; 100 \$4.50

**CARMEN SYLVIA.**—A pure white with light lavender markings in throat. Tall, straight, slender stems; a grand sort. Each 8c; doz. 75c; 100 \$4.50

**CRIMSON GLOW.**—Flowers are large, wide open, fiery crimson; very bright and showy, and the best of the moderate priced reds. Each 5c; doz. 50c; 100 \$3.00

**DR. F. E. BENNETT.**—Peach red, overlaid with flame scarlet making a fiery red; giant, but graceful flowers; very attractive and unequalled. The best red. Each 15c; doz. \$1.50

**DOROTHY WHEELER.**—A beautiful flower of a delicate rose pink. The flowers are well placed on slender graceful stems. Dorothy will please you. Each 6c; doz. 60c; 100 \$4.00

**E. J. SHAYLOR.**—Of real merit. Flowers large and of a beautiful pure deep rose-pink. Winner of many awards. Fine cut flower variety. A good propagator, vigorous grower, of fine form and color. One of the best and most popular varieties. No. 1, Each 5c; doz. 50c; 100 \$3.50  
No. 2 Size, doz. 35c; 100 \$2.50

**FREE  
LEAFLET**

How to  
grow  
and care  
for Gladioli  
bulbs  
free with  
each order  
if asked  
for.



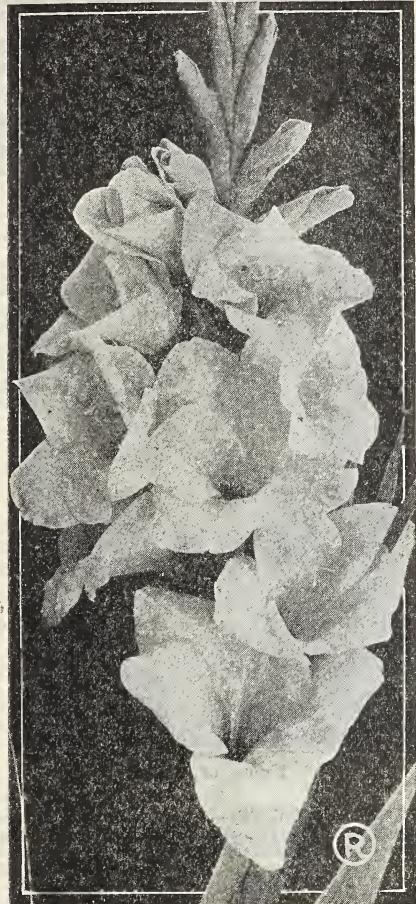
Crimson  
Glow

**ELIZABETH TAYLOR.**—Large attractive flowers of a delicate rose pink. Lower petals have a brilliant crimson blotch which is edged with soft yellow. Large flowers on tall stems and very early. Each 6c; doz. 60c; 100 \$4.00

**EMPEROR OF INDIA.**—Deep, dark red or maroon, with pure white stripe on the two lower petals. Each 5c; doz. 50c; 100 \$3.50

**OUR LOW PRICES FOR 1930,** on the same high quality bulbs we have always sold, will enable you to buy in more liberal quantities.

HIGHEST QUALITY "GLADS" AT THE LOWEST PRICES ever offered. Take advantage of these low 1930 prices and buy liberally



Flora

**FERN KYLE**.—Very large, wide open flower of finest quality and highly ruffled. Marguerite yellow with primrose throat, daintily marked amaranth purple. Winner of many prizes.

Each 15c; doz. \$1.50; 100 \$10.00

**FLORA**.—Clear, golden yellow, large flowers well placed on tall graceful stems. This yellow sort is unsurpassed in our estimation.

Each 10c; doz. \$1.00; 100 \$7.00

**GOLDEN MEASURE**.—Immense tall spikes of deep golden yellow flowers. The king of the yellows.

Each 10c; doz. \$1.00; 100 \$7.00

**HALLEY**.—Delicate salmon-pink, overlaid with a light rosy tint, enhanced by pale yellow center. Every one loves Halley and it's probably the most popular variety on account of its pleasing color and free blooming qualities.

No. 1, each 5c; doz. 50c; 100 \$3.50

Ore., Feb. 15, 1929.

Routledge Seed & Floral Co.

Gentlemen: I wish to thank you for Gladiolas bulbs you sent me, also for the splendid condition the seeds arrived in.

Have used your seeds for years and when I plant them I know they will grow and give me a good crop. Yours truly,

MRS. F. M. MORLEY.

**HERADA**.—A pure mauve-colored variety of rare beauty.

Each 6c; doz. 60c; 100 \$4.00

**J. A. CARBONE**.—Immense flowers of a glowing salmon-orange color; throat yellow; tall erect spikes of wide open flowers that make a glorious display. Highly recommended.

Each 15c; doz. \$1.50

**JACK LONDON**.—A light salmon, nicely marked with brilliant orange flame; golden yellow throat, feathered ruby red. Very beautiful.

Each 6c; doz. 60c; 100 \$4.00

**JOE COLEMAN**.—A beautiful ruffled flower of rich red. Strong and vigorous; mighty fine.

Each 5c; doz. 50c; 100 \$3.50

**LE MARSHAL FOCH**.—Glistening white, suffused cameo-pink; very large flowers, well arranged. One of the best Holland varieties. Should be in every collection. Each 5c; doz. 50c; 100 \$3.00

**LOS ANGELES**—(Cut and Come Again).—A wonderful producer of full-sized flower spikes that are tall and graceful. Flowers of a beautiful, exquisite clear, bright pink, with deeper pink feathering in the throat. An attractive and outstanding new sort.

Each 8c; doz. 85c; 100 \$6.00

**MASTERPIECE**.—Should be in every collection. Rose-red, suffused amaranth purple. Called American Beauty Rose color; fine form and habit.

Each 8c; doz. 85c; 100 \$6.00

**MISS SPOKANE**.—A rich shade of orange, slightly deeper in the throat; 6 to 7 open flowers at a time. A beautiful variety.

Each 5c; doz. 50c; 100 \$3.50

**MRS. FRANK PENDLETON**.—Very popular, for it's one of the best. Flowers large flesh pink with a large bright dash of crimson on the two lower petals. Bright and attractive.

No. 1, Each 5c; doz. 50c; 100 \$3.50

**MRS. H. E. BOTHINS**.—Light, geranium-pink, heavily ruffled scarlet center. One of Diener's most perfect creations and the loveliest color combination.

Each 6c; doz. 60c; 100 \$4.00

**MRS. LEON DOUGLAS**.—New. Handsome, stately variety. Giant, graceful flowers 5 to 6 inches across on tall spikes. Ground color, rich salmon-pink overlaid and beautifully penciled brilliant flame-scarlet; pale lemon throat, slightly specked ruby.

Each 15c; doz. \$1.50

**MRS. F. C. PETERS**.—One of the best; many large flowers open at a time; splendid form and vigorous grower. Beautiful lavender blossoms, with a soft crimson blotch.

Each 10c; doz. \$1.00; 100 \$7.00

## GLADIOLUS—Continued

Cal., Jan. 15, 1929.

Routledge Seed &amp; Floral Co.

Gentlemen: I have been well pleased with all seeds and plants received from you.

Sincerely,  
MRS. H. BURROWS.**ORANGE GLORY.**—Brilliant orange color, throat lighter; very rich and striking color. Large, ruffled, beautiful and distinct.

Each 8c; doz. 85c

**PRIDE OF LANCASTER.**—Brilliant orange salmon; rich, fiery, orange throat. Flowers beautifully ruffled on tall, compact spike.

Each 5c; doz. 50c; 100 \$3.50

**PRINCE OF WALES.**—Free flowering; rich apricot suffused with salmon and orange. A lovely flower. No. 1, each 5c; doz. 40c; 100 \$3.00  
No. 2, 35c doz.; 100 \$2.75**PURPLE GLORY.**—Tall spikes of magnificent giant flowers, with beautifully ruffled petals. Color, a velvety deep, rich maroon, almost purple.

Each 10c; doz. \$1.00

**PYTHIA.**—Very distinct. The immense wide open flowers are perfect in form and gracefully placed in tall, strong spikes. Color rich bright red, suffused carmine. Extremely showy. Long lasting qualities. Don't fail to plant Pythia.

Each 8c; doz. 85c; 100 \$6.00

**PEACE.**—Very popular, extensively planted. Large white flowers, lilac feathering in the throat.

Each 5c; doz. 50c; 100 \$3.50

**RICHARD DIENER.**—Lovely salmon-pink, suffused creamy yellow in the center. The most brilliant, glistening pink to date. The flowers are ruffled and well set.

Each 10c; doz. \$1.00

**ROSE GLORY.**—A pure rosy pink, deeper in throat and edges of petals; graceful, beautifully ruffled.

Each 8c; doz. 80c; 100 \$5.00

**ROMANCE.**—Straw yellow, strongly suffused carmine, making an orange-red cast. Edge of petals purple. A pretty combination giving the flower a dreamy look; very distinct.

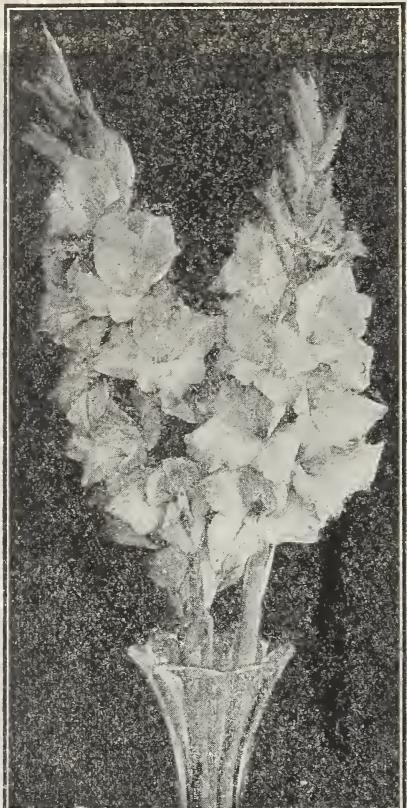
Each 8c; doz. 80c; 100 \$5.00

**SCHWABEN.**—Magnificent, large rich yellow. Throat marked with rich carmine blotch. Eight to 10 wax-like flowers open at a time. Very popular.

No. 1, each 5c; doz. 50c; 100 \$3.50

**SALMON BEAUTY.**—Produces tall graceful spikes bearing large showy salmon flowers with a throat of pure gold. A lovely color and mighty good.

Each 7c; doz. 75c; 100 \$5.00



Prince of Wales

**SWEET LAVENDER.**—A rare, rich color; a combination of light violet and pink, suffused yellow in the throat; garnet blotch.

Each 7c; doz. 75c

**VIRGINIA** (Scarlet Princeps).—Extra strong spikes of massive scarlet blossoms; six or more open at one time. A flaming torch that attracts attention from a distance. Gorgeous and extra fine.

Each 5c; doz. 50c; 100 \$3.50

**WILBRINK.**—Lovely flesh pink, creamy yellow shadings, immense blooms. Very beautiful. Early.

Each 5c; doz. 50c; 100 \$3.50

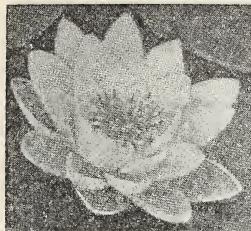
## GLADIOLI BULBS IN MIXTURES

For those who are not so particular as to variety names, yet who want a wide range of the most beautiful shades and colors for mass planting or for cutting, we offer three separate grades.

**ROUTLEDGE GOLD MEDAL MIXTURE.**—An ideal mixture composed of the best named large flowering sorts grown separately and then mixed in the right proportions to make a magnificent display or for cutting the choicest blooms. NO. 1 SIZE BULBS, doz. 85c; 100 \$6.00; NO. 2 SIZE, 1½ to 1½ inch bulbs, doz. 60c; 100 \$4.00.**SUPERB CHOICE MIXTURE.**—A wonderful mixture covering a wide range of colors. Unequalled for the price. NO. 1 FIRST SIZE, doz. 50c; 100 \$3.50. SECOND SIZE BULBS, full blooming age, doz. 40c; 100 \$3.00.

## GLADIOLI SPECIAL

The best bargain ever offered in a mixture of choice named varieties in medium size (about 1 inch) bulbs that will give you nice flowers this summer and produce equal number of first or top size bulbs for the following year. Price, 25 for 50c; 100 for \$1.50 (postpaid).



## WATER LILIES

We are not cataloging a long list of named varieties this year but offer four colors of the best variety for display or cut flowers. **PRICES**—Your choice of **WHITE**, **LIGHT PINK** or **DARK PINK** at \$2.00 to \$3.00. **YELLOW** or **RED**, \$3.00 to \$7.50. You will be pleased with our varieties. Of course the higher priced varieties are more rare and up-to-date sorts.

**ALL SHIPMENTS BY EXPRESS.**—Bulbs can be mailed if necessary by adding 10 cents extra.

Order early and we will send at proper planting time.

### PLANTING DIRECTIONS

Hardy lilies may be planted on the Pacific Coast from March to August, depending on local weather conditions.

**Mosquitos and Goldfish.**—There will be NO mosquitos where pools are stocked with goldfish.

**How to Plant.**—Boxes, 2 feet square and 1 foot deep, should be filled with good, rich garden loam, well compacted. Well decayed manure may be used to enrich the compost—1 part to 3 of soil. A 6-inch pot of bone meal to each box is very useful also. In planting, simply push the root horizontally into the mud until the growing end is flush with the surface. Another method is to spread the soil over the entire bottom of the pool, thus giving more root room to the plants.

Water lilies grow best where there is a foot of water over the plants and about the same amount of soil below. All pools should be made at least 2 feet deep; a 4-inch cement bottom and a 5-inch wall is advised. Tub culture is also successful.

## CHOICE HERBACEOUS PAEONIES

Fine, hardy plants, rivaling the Rose in perfection of bloom, color and fragrance. They are at home in any climate or soil, but thrive best in deep, rich, well-drained loam. They make a gorgeous display. The Peony is perfectly hardy. Plant in the fall or early spring and do not cover the crown of the roots over 2 or 3 inches.

Our collection of varieties is unsurpassed. Every one is a beauty of sterling merit. We send out strong roots for quick results.

**ANDRE LAURIES.**—Dark tyrian-rose shaded solferino-red. Large globular flower. 50c each.

**COURONNE D'OR**—Snow-white golden yellow center. Globular imbricated bloom. 75c.

**DUCHESSE DE NEMOURS.**—Lemon yellow fading to white. Strong growing. Free blooming. 50c each

**EDULUS SUPERBA.**—Beautiful peach-pink flowers of fine size freely produced. Early. 50c each.

**EUGENIE VERDIER.**—Delicate hydrangea-pink. Immense bloom. One of the finest. 75c each.

**FELIX CROUSSE.**—Immense crimson scarlet flowers. One of the finest red sorts. \$1.00 each.

**FESTIVA MAXIMA.**—Color snowy-white flecked with an occasional clear purple spot on edge of center petals. Very fragrant; a glorious flower. 60c each

**FLORAL TREASURE.**—Clear rose-pink of largest size freely produced. One of the finest. 75c each.

**FRANCIS ORTEGAT.**—Deep crimson shaded amaranth. Striking dark variety. 75c each.

**GRANDIFLORA RUBRA.**—Immense globe-shaped flowers of a rich bright red color. A very fine mid-season variety which attracts attention at once 50c each.

**L'ECLETANT.**—Large double deep crimson flowers on tall stems. 75c each.

**LADY LEONORE BRAMWELL.**—Silvery pink. Massive blooms on stout stems. 75c.

**MONS. JULES ELIE**—Deep rose-pink. Immense flowers. One of the finest. \$1.00 each.



Paeony Festive Maxim

**NE PLUS ULTRA.**—Exquisite peach pink, petals edged pure white. Very handsome flower, produced in great profusion. 50c each

**OFFICINALIS RUBRA.**—The old-fashioned early blooming crimson sort. 75c each.

**QUEEN VICTORIA.**—Large, full, compact bloom, opens flesh white, changing to pure white center petals tipped with carmine spots. 50c each.

**RACHEL.**—Deep crimson. Large globular flowers. Grand. \$1.00 each

**REINE HORTENSE** (President Taft).—Immense silvery pink flowers. Fragrant. \$1.00 each.

**NOTE.**—If you want some particular variety, write for price.

## Dahlias

Each variety we offer is selected for perfection of flower, freedom of blooms and long, strong stems that hold the flowers upright. Our list of varieties will please you.

### PEONY FLOWERED DAHLIAS

The form and style of this class vary greatly; some have flat, rounded petals; others are pointed and twisted in most fantastic style. All are beautiful and produce a profusion of flowers on long, slender stems; fine for cutting.

**CITY OF PORTLAND**—The finest yellow dahlia we have ever seen. Flowers of 10 to 12 inches across are not uncommon. The blooms are produced on long, erect stems and keep splendid when cut. The flowers are unusually graceful; the color is a clear, rich canary yellow. Each 50c.

**GARNET KING**—Gigantic flowers of rich, deep garnet. Excellent stems and very free flowering. Each 50c.

**JAMES C. GILL**—A wonderful cut flower on extra long, erect stems. The color is beautiful autumn shades, being rich golden orange marked and toned with red. Each 35c.

**MME. VON BYSTEIN**—Lovely lilac blue, large size, long erect stems. Each 35c.

**MRS. G. GORDON**—Large flowers of beautiful cream color, good stems. Each 35c.

**MRS. IRENE TAFF**—Giant peony-cactus. Petals broad, long and pointed, also incurved. Rich wine red, toned golden yellow deepening to golden zone at center. Each \$1.00.



RS&FCG

Peony Dahlia

**OREGON SUNSET**—Gigantic blooms; golden yellow, suffused bronzy crimson; strong stems. Each 50c.

**PRIDE OF PORTLAND**—Geisha colors but of brighter yellow and richer red, long erect stems. Each 35c.

**ROSALIE STYLES**—Colossal flowers on long, strong stems; bright tyrian pink, tipped lighter. Each 60c.

**MRS. ROWENA FAIRCHILD**—New, beautiful, soft, pink of giant size. Each 35c.

**SQUANTO**—Reddish violet, growing redder at base. Free flowering, strong stems. Each 35c.

**THE ORIOLE**—A giant; a striking combination of burnt orange, red and yellow, often tipped white. Each 50c.

**WASCO BEAUTY**—Giant peony cactus. Long erect stems, crimson, heavily tipped gold. Each 50c.

### COLLARETTE DAHLIAS

Very desirable class, having long stiff stems and very free flowering. Unequalled for continuous garden display, and for cut flowers. Flowers single, 3 to 4 inches across and have a collar of small petals of a contrasting color around the center disc.

**ARIA**—Soft rose, zoned with white in center. White color.

**DIADEM COLLARETTE**—Beautiful rosy pink, white collar.

**MT. LASSEN**—Fiery red with yellow collar; free flowering; long, erect stems.

**SONATA**—Starry flowers on good stems. Light orange red, yellow collar.

**SWALLOW**—Beautiful pure white collarette; long, erect stems, fine for cutting.

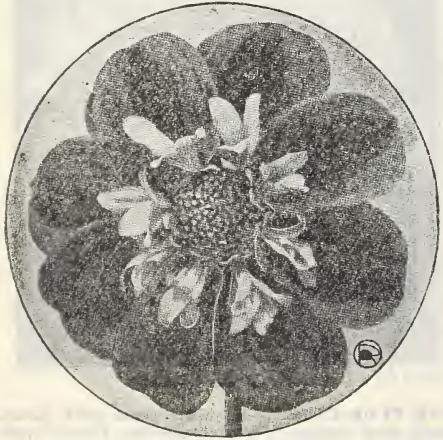
**Prices**—Your choice of above, 35c each; 5 for \$1.50.

### Dahlia Specials—Choice Varieties Unnamed

For those that do not care for the names, we offer **CACTUS**, **DECORATIVE** and **PEONY** Dahlias—in separate colors, at very low prices. These lots are made up of surplus stock and small lots of not sufficient quantities to catalog, but the mixture is of only choice sorts, many new, high priced.

**PRICES**: Your choice of class and color in **CACTUS**, **PEONY** and **DECORATIVE** varieties in shades of white, rose and pink, red or yellow and orange, labeled by class and color only, at 20c each; \$2.00 dozen. **MIXED, ALL COLORS** and varieties, 15c each, \$1.50 dozen.

**NOTE**.—When planting, remove the label and fasten it to a small stake to mark the location of the bulb and keep the name for later reference.



Collarette Dahlia

## CHOICE NEW CACTUS DAHLIAS

In the following list we offer only sorts of special merit, the most perfect in form of flower, profusion of bloom and with upright stems that show the flowers above the foliage, all of which makes them the most desirable for cutting or garden display.

**BALLET GIRL**—Immense, incurved flowers on good stems. Orange petals, edged white. Each 60c.

**BETTY AUSTIN**, (H. C.)—Perfect blooms on long, erect stems; yellow at base, blending to rosy carmine. Each 50c.

**BRIDE'S BOUQUET**—Perfect, full flowers of pure white, on long stems. Perfect cut flowers. Each 50c.

**CIGARETTE**, (H. C.)—Giant flower on long stems; cream ground edged with pomegranate red. Each 75c.

**DADDY BUTLER**, (H. C.)—Giant flowers on long stems, American Beauty shade with lighter reverse. Each 75c.

**ESTER HUNT**—Giant blooms of vivid, oriental orange. A very fine Dahlia. Each \$1.00.

**FERNAND OLIVET**—Large flowers of dark maroon; excellent stems. Each 35c.

**H. WEARING**—Long, narrow, straight petals. Salmon passing to amber at base. Each 35c.

**F. GRAHAM**—Giant flowers on strong, erect stems. Color salmon rose, shading to yellow center. Each 50c.

**GOLDEN WEST**, (H. C.)—Large flowers on erect stems; deep rich yellow overlaid with orange. Each 50c. .

**JEAN CHAZOT**—Giant flowers on long stems, golden bronze, lightly suffused soft red. Each 75c.

**LAURINE**—Giant flowers of deep pink; long, erect stems. Each 75c.

**MARATHON**—Large incurved flowers on strong stems; color deep rich purple. Each 35c.

**MARY MUIR**, (H. C.)—Extra fine cut flowers. Large ivory white blooms, erect stems. Each 50c.

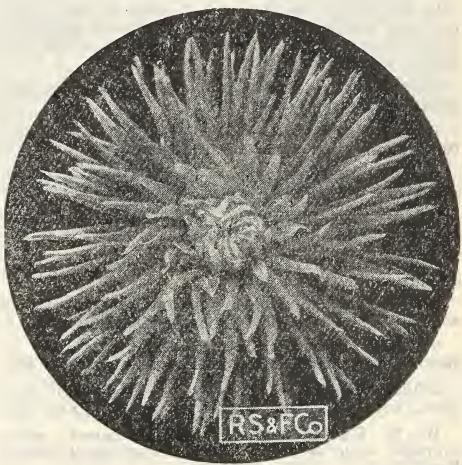
**MAUDE HASTINGS**—Very soft yellow, full flowers on good stems, prolific bloomer. Each 35c.

**MISS GERTRUDE HIGGINS**, (H. C.)—Large flowers on perfect stems; crimson tipped with gold. Each 50c.

**MISS HELEN DURNBAUGH**, (H. C.)—Large flowers on good stems; delicate blue deepening to rose. Each 35c.

**MODEL**—Clear waxy yellow, with delicate blush over tips. Fine cut flowers. Each 35c.

**MRS. EDNA SPENCER**, (H. C.)—Large, splendid cut flower of soft lavender pink. Each 50c.



Cactus Dahlia

**MRS. ETHEL SMITH**, (H. C.)—Giant creamy white shading to lemon. Long straight stems. Each 50c.

**RHEINISHER FROSCHSIN**—Large and incurved; erect stems; carmine cerise, zoned white at base. Each 35c.

**SURPRISE**—Rich orange-amber with yellow center, strong, erect stems. Each 50c.

**WALTER DEEGEN**—Intense, rich fiery scarlet, suffused with orange; strong stems. Each 35c.

**WOLFGANG VON GOETHE**, (H. C.)—Large flowers on strong stems; rich apricot with carmine shadings. Each 50c.

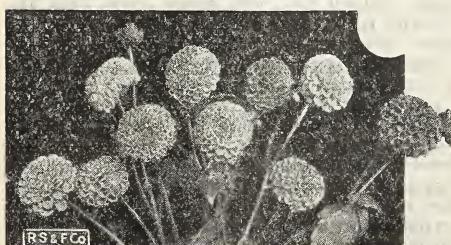
**YELLOW KING** (H. C.)—A giant flower on long, erect stems; rich yellow shading to white at tips. Each 35c.

## POMPON DAHLIAS

A compact growing class of Dahlias thriving with ordinary cultivation and producing with great freedom, small perfectly double flowers of neat rounded form, upon long wiry stems. These Dahlias have become very popular with people who buy cut flowers in our store. They lend themselves to any kind of floral decoration and last remarkably well after being cut.

**ACHILLES**—Base of petals flesh color, tipped with pink.

**CLARA HARSH**—Perfect blooms of yellow, tipped with crimson.



Pompon Dahlias

**DARK EYE**—White, lavender tips and center, long erect stems.

**EUREKA**—Rich bronze, shading to yellow, excellent stems.

**FAIRY QUEEN**—Beautiful sulphur yellow, edged pink, long, erect stems.

**ЛАSSIE**—Neat little flower on fine stem; yellow base, tipped rose.

**LITTLE BELLE**—Compact little flower of clear mauve pink on fine stems.

**MADELINE**—Beautiful, neat flower of pale yellow, edged purple.

**ROSA WILMOTH**—A fine rose pink on ideal stems; fine flowering.

**SUNSET**—Clear rich orange shade, very small, extra fine.

**TOM THUMB**—The smallest Pompon we have seen. Rich garnet red on perfect stems.

Prices: Your choice of above 35c each, \$3.00 doz.

## DAHLIAS—(Continued)

### SHOW OR QUILLED DAHLIAS

In this section we have the Dahlias of our grandmother's garden, but of improved form and size, with richly colored flowers of rounded form and quilled petals. Excellent for cut flowers.

**A. D. LIVONI**—An old favorite; color, clear, rich pink; fine stems. Each 35c.

**BLACK DIAMOND**—Very dark maroon; large flowers on long stems. Each 35c.

**CLARA SEATON**—Enormous blooms of a pretty shade of rich, golden bronze. Each 35c.

**DIADEM**—Brilliant rich crimson; large and perfect on strong stems. Each 35c.

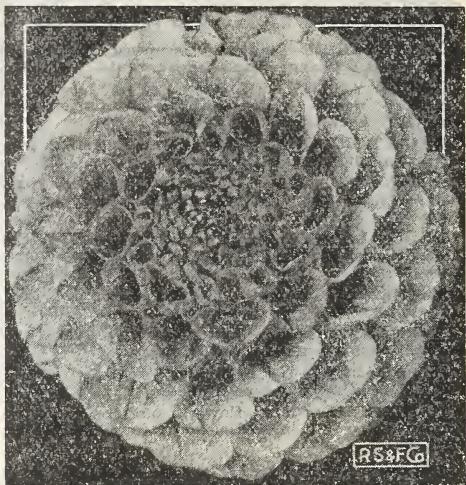
**DREER'S WHITE**—Large, perfect quilled dahlia of pure white. Each 35c.

**GOLD MEDAL**—Golden yellow heavily striped and penciled red; strong, erect stems. Each 50c.

**GOLDEN OPPORTUNITY**—Giant flowers on strong, erect stems; deep golden yellow. Each 50c.

**ROSEBUD**—White, effectively edged with rose pink, long, erect stems. Extra good. Each 35c.

**W. W. RAWSON**—Large, quilled flower; white overlaid with lavender blush; long, erect stems. Each 25c.



Show Dahlia

### DECORATIVE DAHLIAS

In this class of Dahlias will be found those sorts which florists and gardeners prize most highly for cut flowers. These Dahlias are characterized by their strong, erect growth and their large, well formed, handsome flowers on strong, stiff stems far above the foliage.

**AL KOREN**—A giant on long, erect stems; color goldenrod yellow suffused amber on older petals. Each 50c.

**AMUN RA**—Gigantic flowers on erect stems; copper and orange suffused with gold and reddish bronze. Each 60c.

**AUGUSTA JOHNSON**—Giant flowers of a rosy salmon, yellow center, good stems. Each 75c.

**BRILLIANT**—Hybrid show. Intense fiery scarlet on long, erect stems. A fine cut flower. Each 35c.

**CHALLENGE**—Ideal for cutting; color, gold suffused and tipped bright garnet crimson. Each 35c.

**CLAUDE HARLAN**—Gigantic, full double blooms of soft blush lavender. Very free flowering. Each 50c.

**DREAM**—Long, erect stems; beautiful salmon shade with amber-like glow. Each 35c.

**DR. TEVIS**—Gigantic flower on long, erect stems; old rose shading to gold. Each 35c.

**EL DORADO**—Giant flower on long, erect stems; vivid gold shading deeper. Ideal cut flower. Each \$1.25.

**ELITE GLORY**—Monster flowers on erect stems. Bright radiant red. Exhibition sort. Each \$3.50.

**HALVELLA**—A giant on long, erect stems; old rose pink with a golden sheen. Each \$1.00.

**HAZEL WELTON**—Strong, erect stems; rich saffron-red with orange suffusion. Each 60c.

**JERSEY'S BEAUTY**—A giant on long, erect stems; beautiful new shade called Erosine pink. Each \$1.00.

**KING ALBERT**—Gigantic flowers on strong erect stems; rich royal purple. Each 50c.

**MARCELLA GILL**—Extra early, unusually productive and the best cut flower dahlia we have seen. Long, wiry, erect stems with delightful rich shell pink flowers with lighter tones. Each 35c.

**MILLIONAIRE**—Gigantic flowers on strong stems. Light lavender. Each 50c.

**PAUL BONYON**—Giant flowers on long erect stems. Salmon pink, with golden sheen. Each 35c.

**PRIDE OF CALIFORNIA**—Giant flowers on long stems; color deep rich crimson. Each 50c.

**PRINCESS ANGELINE**—A large beautiful cerise on long erect stems. A fine cut flower. Each 35c.

**PRINCESS JULIANA**—One of the best white Dahlias for cutting. Each 35c.

**SULPHUREA**—Giant sulphur yellow, long petals somewhat resembling a chrysanthemum. Each 35c.

**SUSAN G. TEVIS**—Immense flowers on long, erect stems; deep lilac with bluish sheen. Each \$2.50.

**TOMMY ATKINS**—A giant flower of lustrous flaming scarlet on long, erect stems. Each \$1.00.

**T. P. QUIMBY**—A large, close built flower on long, erect stems; pure white. Each 35c.



Decorative Dahlia



Tuberous Rooted Begonias

## TUBEROUS ROOTED BEGONIAS

Excellent for pot culture or planting in lawn beds and borders. They should be grown more extensively than they now are, for they require very little attention and are in flower, outside, from early summer until heavy frosts; inside, potted, they are a constant and prolific bloomer. They will thrive either in mild sunshine or in shade, but when fully exposed to the sun the beds must be well watered in hot weather. Add peat moss to the soil.

**CULTURE.**—Before planting keep the bulbs in a moist, warm place, to start them, so that you can tell which is the top. Plant a foot apart in beds or 1 bulb to a 4-inch pot inside, cover about 1 inch. We offer only first size large bulbs.

**DOUBLE FLOWERED.**—Separate colors in pink, scarlet, orange, yellow, red or bronze. (See illustration.) Each 30c; doz. \$3.00.

**GIANT SINGLE FLOWERED** in separate colors of pink, scarlet, orange, yellow red or bronze. Each 25c; doz. \$2.50.

**GIANT CRISTATA.**—(See illustration.) The most beautiful of all. Flowers with ruffled edges and crested petals. Often called the ruffled double Begonia. Mixed colors only, each 46c; doz. \$4.00.

**GIANT CRISPA.**—Beautiful large single flowers with fluted and ruffled edges (see cut). Mixed colors only, each 35c; doz. \$2.00.

## CANNAS

Everyone knows the value and beauty of Cannas for bedding. Their large, massive, tropical-looking leaves and magnificent flowers cannot be equaled in any other plant of such easy culture. Plant outside after danger of frosts is past, 18 inches apart, in rich, deeply dug, well-prepared bed (12 plants required for a 6-foot circular bed).

**PRICE.**—Your choice following kinds: Each 25c; doz. \$2.50. postpaid. We send growing plants

**AMERICAN BEAUTY.**—Deep rich carmine, green foliage.

**WABASH.**—Immense carmine, pink, bronze foliage.

**WINTZER'S COLOSSAL.**—Immense scarlet spikes, green foliage.

**CITY OF PORTLAND.**—Large bright pink, green foliage.

**YELLOW KING HUMBERT.**—Golden yellow, scarlet throat, massive green foliage; a giant in growth.

**FLAG OF TRUCE.**—Creamy white with pink dots.

**FIREBIRD.**—Large bright scarlet, green foliage.

**FLORENCE VAUGHN.**—Golden yellow, scarlet spots.

**HARMONY.**—Deep red, bronze foliage.

**KING HUMBERT.**—Orange scarlet with bronze foliage. Best and most popular.

**METEOR.**—Dark crimson, green foliage.

**MOHAWK.**—Red shaded carmine, bronze foliage.

**NOKOMIS.**—Deep crimson, bronze foliage.

**ORANGE BEDDER.**—Deep orange color, green foliage.

**PALM BEACH.**—Canary yellow, flushed pink.

**PANAMA.**—Orange scarlet bordered golden yellow.

**ROSES GIGANTIA.**—Rich dark pink, very large spikes.

**THE PRESIDENT.**—Immense crimson flowers, green foliage.

**VULCAN.**—Cardinal red, very free flowering.



Canna Plant

**POTTED PLANTS.**—After danger of frost, we have at our store large, potted Cannas that will give quick results. By express (not mailable), each 30c; doz. \$3.00.

## CHOICE OREGON-GROWN ROSE BUSHES

We make a specialty of Rose Bushes and sell thousands upon thousands. Our bushes are strong, healthy, field-grown stock, well rooted, and will produce a profusion of bloom the first season, if given good care and cultivation. We enjoy the reputation of supplying the best stock at reasonable prices. The following list is the choicest of American and European introductions. **ALL OREGON-GROWN; WORTH DOUBLE EASTERN OR CALIFORNIA.**

### FOR YOUR CONVENIENCE—CLASSIFICATION UNDER COLORS

This year we have arranged our Roses under their predominating color, which appeals to us as the most convenient way. While the descriptions are necessarily short on account of limited space, you will get class (read abbreviation below), color and main points of merit.

### SHIPPING AND DELIVERY

We can fill orders for our large 2-yea-old Rose Bushes any time from October to May.—Around Portland the best planting time is during favorable weather from **NOVEMBER TO APRIL, THE EARLIER THE BETTER.**

**BY EXPRESS.**—We ship 2-year-old Rose Bushes by express, unless otherwise instructed.

**BY PARCEL POST.**—By request we will wrap, pack and mail Rose Bushes for 10c each or 75c doz. extra. **DON'T FORGET THE EXTRA POSTAGE AND PACKING WHEN WANTED BY MAIL.**

### ABBREVIATIONS

**T.—TEA.**—One of the best classes of Roses and truly ever blooming. They are hardy in this section although during our coolest weather and in cold sections they should be protected with a covering of fir boughs, straw or burlap.

**H. T.—HYBRID TEA.**—Most of these are as free flowering and as constant bloomers as the teas, and are harder, stronger growers.

**H. P.—HYBRID PERPETUAL.**—The hardiest of all roses, vigorous in growth, free blooming.

### WHITE—CREAM

**ADONIS**—Ivory white with pronounced lemon-yellow shading. Flowers of fine size and form, on stout canes. One of the finest white sorts. Each \$1.00.

**EDEL (H. T.).**—Regarded as one of the finest white varieties. Flowers immense, of snowy white and great beauty; vigorous grower, fragrant and a free bloomer. Each \$1.00.

**FRAU KARL DRUSCHKI (H. P.).**—A large, grand, hardy, pure white; best and most popular. Each 65c

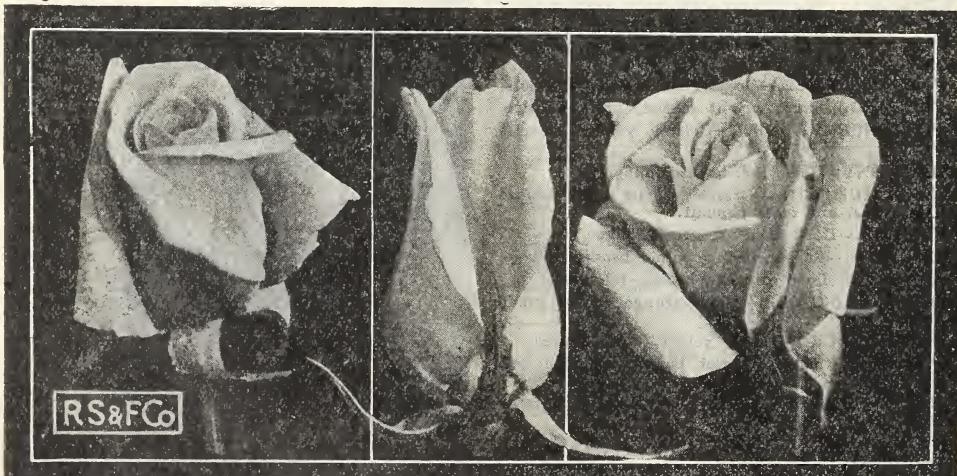
**QUESTION?** If we are sold out and unable to supply variety ordered, shall we substitute one of equal value and the same color, correctly labeled, or send short and refund?

**KAISERINE AUGUSTA VICTORIA (H. T.).**—A strong, vigorous grower, producing buds and flowers of enormous size; color, pure white. A very popular variety. Each 65c

**MRS. CHARLES LAMPLough (H. T.).**—Soft lemon yellow shaded to cream. Enormous flowers of wonderful substance. A splendid new Irish rose. Each 75c

**WHITE KILLARNEY**—This elegant new rose first made its appearance in a well-known New England nursery, where it sported from the famous Irish Rose, Killarney, now grown more extensively for cut flowers than any other variety. However, we have found the new visitor far superior to its parent as regards vigor, size of flower and ability to resist disease. Each 75c

**WHITE MAMAN COCHET (H. T.).**—Has all the good qualities of Mamman Cochet, but pure white, equally large and fragrant, hardy and productive. One of the very best white ever-blooming roses for bedding, flowering all season long and until late in the fall. Each 65c



Angele Pernet

Madame Ed Herriot

Ophelia

Make your Rose Bushes grow and bloom profusely by applying a liberal amount of "H. Q." Sheep and "Marvel." See page 37.

PLEASE NOTE.—Should we be sold out and unable to obtain the varieties of Roses ordered, others of a similar color and type and CORRECTLY LABELED will be substituted, UNLESS OTHERWISE ORDERED.

## YELLOW ROSES

**ANGELE PERNET** (H. T.)—Orange yellow shaded with apricot; long-pointed buds opening into large striking flowers; highly prized. Each \$1.00

**CONSTANCE** (H. T.)—Buds long and pointed, of a rich orange-yellow streaked with crimson, passing to large, full flowers of bright cadmium-yellow. Each \$1.00

**DUCHESS OF WELLINGTON** (H. T.)—Intense rich saffron-yellow; very large and of fine form; beautiful in bud as well as open flower. Each 75c

**GOLDEN EMBLEM** (H. T.)—Golden yellow flowers of finest size and form. Glossy holly-like foliage. Superb new sort. Each \$1.00

**GOLDEN OPHELIA** (H. T.)—Rich golden yellow flowers in greatest freedom on stout wiry stems clothed with glossy dark green foliage. Beautifully formed buds. Each \$1.00

**LADY HILLINGSDON** (H. T.)—Deep apricot yellow, long pointed bud. Each 75c

**MABLE MORSE** (H. T.)—Very large rich golden yellow buds on fine stems. One of the finest yellow roses yet produced. Each \$1.00

**MRS. AARON WARD** (H. T.)—Deep golden-orange, shading out to creamy-yellow at edge of petals. Beautiful deep buds. Each \$1.00

**MISS LOLITA ARMOUR** (H. T.)—A magnificent new rose of a rich chrome yellow, shaded to coppery orange. Flowers large, of finest form, on stout canes. Each \$1.00

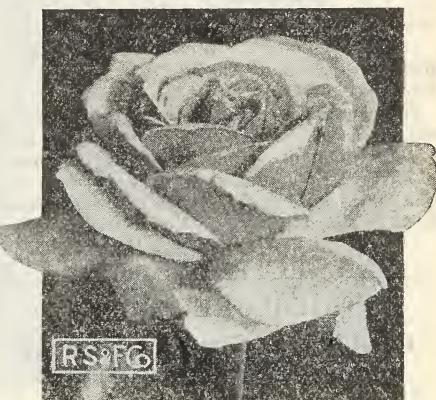
**SOUV. DE CLAUDIUS PERNET** (H. P.)—Very large deep golden yellow flowers on stout, thorny canes. Gold Medal rose. Each \$1.00

**SUNBURST** (H. T.)—A giant yellow rose; long, beautiful buds, large full gorgeous flowers cadmium-yellow with orange and copper. Each \$1.00

**SUNSTAR** (H. T.)—Deep orange yellow veined and splashed crimson and vermillion; lovely buds. Each \$1.00

## PINK ROSES

**COLUMBIA** (H. T.)—Of strong, vigorous growth and free-blooming. Flowers of good size; perfect in form in bud and when fully expanded. A pleasing shade of rose-pink; fragrant. Each 75c



Imperial Potentate

## Don't Forget Postage

IF ROSE BUSHES ARE ORDERED SENT BY PARCEL POST SEND 10c EXTRA, 75c PER DOZEN, FOR PACKING AND POSTAGE. OTHERWISE WE'LL SEND BY EXPRESS, COLLECT.

**FELICITY** (H. T.)—Brilliant rose pink, base of petals primrose. Wonderfully free blooming and strong healthy grower. Each \$1.00

**GEORGE AREND'S OR PINK DRUSCHKI** (H. T.)—A beautiful pink variety; different in color from any other rose; a free bloomer. Each 75c

**IMPERIAL POTENTATE** (H. T.)—A new rose of sterling merit. Strong, vigorous, healthy grower. Beautiful buds opening into a well formed, solid and lasting flower of a rich rosy carmine. Sweetly scented. Each \$1.00

**LOS ANGELES**.—A flame pink, toned with coral and shaded gold at base of petals. Buds long pointed and lasting flowers. Each 75c

**LADY ASHTON** (H. T.)—One of the finest pinks of a rich, deep, silvery tone; flowers large. Each 75c

**MRS. W. C. EAGEN** (H. T.)—Soft rose pink with silvery shadings and golden yellow base. Fine buds and large handsome flower. Each 75c

**MRS. CHARLES RUSSELL** (H. T.)—Strong; canes stout and thornless; handsome foliage, flowers very large and very full. Color bright rich cerise, shaded to scarlet at center. A continuous bloomer all season through. Each 75c

**MADAME CAROLINE TESTOUT** (H. T.)—Portland's famous brilliant pink rose. Each 60c

**MAMAM COCHET** (H. T.)—One of the finest Tea Roses. Magnificent buds opening into flowers of grand size and build; deep rosy pink, inner side of petals shaded silvery rose. Each 75c

**MRS. JOHN LAING** (H. P.)—Very free flowering, all season. Color soft, delicate pink, with a satiny tinge. Each 65c

**PREMIER**.—Massive dark pink flowers; robust grower; fine foliage; flowers keep well. Each 75c

**ROSE MARIE**.—This new American variety is remarkable for its freedom of bloom and its beautiful buds and well formed flowers. Color a fresh even shade of rose pink. The buds are long and pointed, unfolding evenly into a large full flower. Each 75c



Golden Emblem

## OREGON GROWN ROSES—Continued

PLEASE. NOTE.—Should we be sold out and unable to obtain some certain varieties of Roses ordered, others similar in color and type and CORRECTLY LABELED will be substituted, UNLESS OTHERWISE ORDERED.

Wash., Oct. 12, 1929.

Routledge Seed & Floral Co.  
Portland, Oregon

Gentlemen: Received your shrubs and they are all O. K. I am well pleased with them. I think they are good value for the money. ...There will be other orders coming from this place as I am a booster for Routledge Seed & Floral Co. Yours truly,

ED. O'NEIL.

### TRICOLORED ROSES

#### Combination Shades of Orange, Gold, Red, Pink, Yellow

**BETTY** (H. T.)—Beautiful coppery-rose color, overspread with golden-yellow; fragrant. Each 75c

**GORGEOUS** (H. T.)—Flowers large and full; freely produced on stiff, erect stems; color deep orange yellow, flushed copper yellow, and veined with reddish copper. Each \$1.00

**IRISH FIREFLAME** (H. T.)—Orange crimson buds opening into single blooms, coppery yellow flushed with orange crimson. Fine for cutting. Each 75c

**IRISH ELEGANCE** (H. T.)—Bronze orange in the bud, opening into large single flowers of a lighter shade. Vigorous growing and perpetual blooming. Each 75c

**INDEPENDENCE DAY** (H. T.)—Sunflower gold streaked and stained coppery bronze and orange. Finely formed, fragrant and very free. One of the outstanding new sorts. Gold Medal N. R. S. Each \$1.00

**JULIET** (H. B.)—Flowers beautifully formed, with petals of fine shape and substance. The color is a bright orange-red on the inside of petals, while the reverse side is of a rich old gold color. Each 75c

**LOUISE CATHERINE BRESLAU** (H. T.)—Coral red, shaded chrome yellow, opening to a flower of shrimp-pink, shaded coppery-orange. Each 75c

**MADAME BUTTERFLY** (H. T.)—A sport from the popular new rose Ophelia, which may be said to be a glorified form of that fine variety. In this new sort all the colors are intensified, making it a rich harmony of bright pink, apricot and gold. The unopened buds are especially distinct with their lovely shades of Indian red passing to golden yellow at their base. Each 75c

**MADAME EDOUARD HERRIOTT** (T.)—Long, pointed buds, a deep coral red color, shaded to yellow at the base; flower of a rare shade of rosy scarlet, flushed with shrimp and apricot tints. Excellent. Each 75c

**MADMOISELLE CECILE BRUNNER** (Dwarf Polyanthus).—Exquisite little roses, buds dainty, painted, bright salmon pink, yellow center. Each 75c

**MARGARET DICKSON HAMILL** (H. T.)—Delicate straw color, its shell like petals flushed at the edges on the reverse side with delicate carmine-rose. Strong in growth, free blooming and equally fragrant. Each \$1.00

**MRS. DUNLAP BEST** (H. T.)—A wonderfully strong growing and free blooming new rose from England which we regard as one of the very finest sorts. Color deep reddish apricot shaded to golden yellow at base of petals. Leathery bronze colored foliage clothes the long stout canes. A splendid garden and decorative rose. Each \$1.00



Queen Alexandra

#### Don't Forget Postage

10c extra, 75c per doz. extra for packing and postage on Rose Bushes

**OPHELIA** (H. T.)—The most popular cut flower variety today. Buds orange salmon opening to perfect full flower of dainty cream pink; super rose. Each 75c

**PADRE** (H. T.)—Coppery scarlet, flushed with yellow at base of petals. Long, stout, upright canes hold flowers erect. Exceedingly free-flowering. An excellent bedding variety from England that has made a fine record. Each \$1.00

**QUEEN ALEXANDRA** (H. T.)—Face of petals deep vermillion with orange colored base. Reverse of petals old gold. A rare new color in roses. Each \$1.00

**REV. F. PAGE ROBERTS**—Buds long and pointed, of a rich copper color stained red on the outside; opens into a large golden yellow flower. Highly prized in this country because of the novel color and lovely shaped buds. Each \$1.25

**SHOT SILK** (H. T.)—Cherry cerise overshot with salmon-orange. Clear yellow at base of the petals. Of fine size and form. A gold medal rose. Each \$1.00

**SOUVENIR DE GEORGES PERNET** (H. T.)—Oriental red, tips of petals touched with cochineal. Entire flower faintly shaded with yellow. Flowers very large and full on strong stout stems. Each \$1.00

**WILLIAM F. DREER** (H. T.)—Soft shell pink, base of petals rich golden yellow. Sometimes the entire flower is covered with golden suffusion. Each 75c

**WILLIAM KORDES**—Buds rich capucine-red on a golden yellow ground opening into very large flower of golden yellow striped with red. An outstanding variety because of the distinctive color combination. Vigorous growing and remarkably free in bloom. A variety which we recommend to all lovers of fancy roses and there are many of them these days. This fine rose is a Holland production, whence many very good sorts have come of late years. Do not overlook William Kordes. Each \$1.25

All 2-year-old rose bushes by express, unless otherwise ordered. Read about shipping, top of page 91, and inside front cover. Remember, 10c extra, 75c doz., packing and postage

## RED, SCARLET AND CRIMSON

**CHATEAU DE CLOS VOUGEOT (H. T.).**—A very rich, fiery scarlet shading to deep velvety crimson; delightfully fragrant. Each 75c

**ETOIL DE HOLLAND (H. T.).**—Rich scarlet of wonderful brilliancy. Long pointed buds and large open flower. Splendid for bedding. Each \$1.90

**GENERAL McARTHUR (H. T.).**—A grand crimson scarlet. Elegant long buds and the flowers are very fragrant. Each 75c

**GENERAL JACQUIMENOT (H. T.).**—This fine dark red is still indispensable in any garden. Each 65c

**GRUSS AN TEPLITZ (H. T.).**—This is a rose for everybody, succeeding under the most ordinary conditions. Rich scarlet, shading to crimson; fragrant; a free, strong grower. Each 65c

**H. V. MACHIN (H. T.).**—A splendid new exhibition rose; grand scarlet crimson flowers of wonderful size and form. The buds are long and pointed, unusual in a red rose. Each 75c

**HADLEY (H. T.).**—Color beautiful rich, bright red. Very free and constant. A shapely, graceful bud and flower. One of the most charming and distinctive red roses. Each 75c

**HOOSIER BEAUTY (H. T.).**—Flowers are dark crimson, shaded with maroon and veined with black; beautiful buds with fine, pointed shape; large double flower. Each 75c



Madame Caroline Testout

**HUGH DICKSON (H. P.).**—This superb Irish Rose stands in the front rank as a producer of the very finest brilliant crimson-scarlet roses. Of strong, vigorous growth. Each 65c

**J. B. CLARK (H. P.).**—Deep crimson shaded maroon. Large massive flowers on stout long canes, clothed with leathery foliage. Each 75c

**JOHN RUSSELL.**—Deep velvety crimson overlaid with black sheen. Large perfectly formed flowers on stout stems. This new English rose looks very promising with us. We like it for its strong free habit and hardiness. Gold Medal, Bagatelle Gardens, Paris. Each \$1.25

**LORD CHARLEMONT (H. T.).**—Rich crimson, flushed with carmine. Long pointed buds of exquisite formation. Sweetly scented. One of the finest new red roses. Each \$1.00

**PRINCE CAMILLE DE ROHAN (H. P.).**—Very dark rich velvety crimson, passing to intense maroon, shaded black. One of the darkest roses and very handsome. Each 65c

**RED RADIANCE.**—Of the same general habits as the Radiance rose but with flowers of a bright ruby red color. Of the easiest growth possible in a rose and gives general satisfaction. Each 75c

**SENSATION (H. T.).**—Bright scarlet-crimson, shaded maroon. Flowers very large, very fragrant, and come on fine strong stems. Excellent for cut flowers. Price \$1.00

**ULRICH BRUNNER (H. P.).**—Extra large bold flowers, full and globular; color, rich glowing crimson, elegantly flamed with scarlet; a good grower and free bloomer. Each 65c



William Kordes

## BABY OR DWARF POLYANTHA ROSES

A type of roses which grow only a foot or two high, bear large clusters of flowers possessing great lasting qualities, and are always in bloom. They are fine for massing in beds, for bordering large rose beds or planted singly on the lawn. Perfectly hardy.

YOUR CHOICE OF THE FOLLOWING, EACH 75c; DOZ. \$7.50

**BABY RAMBLER (Dwarf-bush type).**—Not over 18 inches high, producing large trusses of light crimson flowers; clean, dark-green foliage.

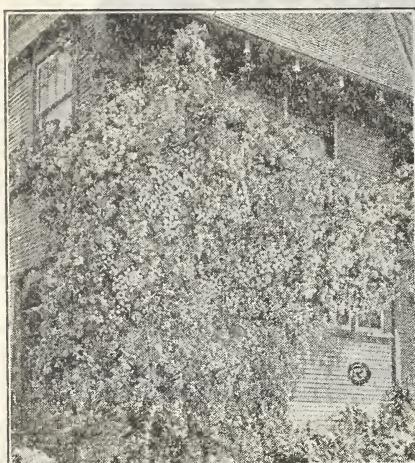
**MES. W. CUTBUSH.**—Clusters of pretty double, bright pink flowers, freely produced in panicles; always in bloom.

**BABY DOLL (Tip Top).**—Clusters of golden yellow flowers tipped with cerise. An absolutely new combination of color in this class of roses. Beautiful for cutting.

**BABY TAUSENDSCHEIN.**—Pale pink flowers, becoming reflexed with carmine-rose; very beautiful.

SHOULD BUSHES ARRIVE VERY DRY, bury tops and all in damp ground, or immerse in a tub of water for a few days. It will benefit them very much.

# BEAUTIFUL CLIMBING AND PILLAR ROSES



Dorothy Perkins, 30 Ft. High, Thousands of Blooms.  
A Popular Variety

## HARDY PILLAR ROSES

The following Roses all grow vigorously, and are profuse bloomers and very hardy anywhere. The flowers are borne in large clusters.

Your Choice following—60c each, if not otherwise marked:

**CRIMSON RAMBLER.**—This grand rose is well known and very popular; of rapid growth.

**DOROTHY PERKINS** (See illustration).—Flowers in immense cluster, beautiful shell pink.

**DR. VAN FLEET.**—Flowers large with high built center and petals beautifully undulated and cupped. Beautiful shade of shell pink. Handsome bronze green foliage. A rank climber, immune from mildew.

Each 75c

**TAUSEND SCHON** (Thousand Beauties).—Entirely distinct. Large single flowers fully 3 inches across; a beautiful shade of soft pink, shaded carmine and produced in trusses of from 10 to 15 flowers.

Each 75c

**AMERICAN PILLAR.**—Flowers saucer-shaped, three to four inches across and very lasting. They hang in immense clusters all along the branches, and make a remarkable sight, a veritable sheet of bloom. Color, clear bright, rosy pink.

**PAUL'S SCARLET CLIMBER.**—A wonderful new hardy climbing rose. The flowers are semi-double and produced in clusters, the plant being literally covered with brilliant vivid scarlet flowers from top to bottom. It is of strong climbing habit.

Each 75c

**SILVER MOON.**—A magnificent white climber, large, semi-double blooms of good substance, with golden stamens. Foliage is abundant, bronze-green, and is immune to mildew.

Each 75c

**SHOWER OF GOLD.**—A beautiful new climber of the Wichuriana type from the gardens of the famous English rosarian, William Paul. It is of very vigorous growth, with dense, glossy green foliage. Produces masses of golden yellow flowers in large clusters.

Each 75c

## Don't Forget Postage

If rose bushes are ordered sent by parcel post send 10c extra, 75c per dozen, for packing and postage, otherwise we'll send by express, collect.

## Superb Climbing Varieties

**CLIMBING AMERICAN BEAUTY.**—Rampant climbing rose hardy as an oak tree, producing clusters of nicely formed double flowers of a rich rosy crimson color.

Each 75c

**CLIMBING CECILE BRUNNER.**—The flowers are produced in clusters and like the bush variety are of exquisite form and color, being a rosy pink on a creamy white ground.

Each 75c

**CLIMBING GENERAL McARTHUR.**—A climbing form of the fine red rose General McArthur. Splendid in every way.

Each \$1.00

**CLIMBING HOOSIER BEAUTY.**—Handsome, rich crimson flowers shaded to pink. One of the best ever-blooming climbing roses yet produced.

Each \$1.00

**CLIMBING LADY ASHTOWN.**—Large rose-pink flowers shaded to yellow at center. A continuous blooming climbing rose of the greatest merit. We recommend it most highly.

Each 75c

**CLIMBING LOS ANGELES.**—A fine climbing form of the new Los Angeles. Shrimp pink and coral color.

Each \$1.00

**CLIMBING LADY HILLINGTON.**—The golden yellow flowers, the bronzy red foliage and the strong arching branches, make this the most desirable pillar and porch rose of its color.

Each \$1.00

**CLIMBING MADAME BUTTERFLY.**—A climbing form of the beautiful new rose Madame Butterfly. Rich shades of apricot and gold. A glorious climber.

Each \$1.00

**CLIMBING MAD. CAROLINE TESTOUT.**—Counterpart of our famous official pink hedge rose.

Each 75c

**CLIMBING MADAME EDOUARD HERRIOTT.**—Coppery scarlet flushed with apricot. Strong, rapid climbing sort.

Each \$1.00

**CLIMBING SUNBURST.**—A true pillar rose of strong growth, bearing freely very large cadmium yellow flowers. Beautiful either in bud or open flower.

Each \$1.00

**REINE MARIE HENRIETTE.**—A strong, vigorous grower; flowers large, full and of fine form. Color glowing crimson, elegantly shaded. One of the best climbers.

Each 75c

## TREE OR STANDARD ROSES

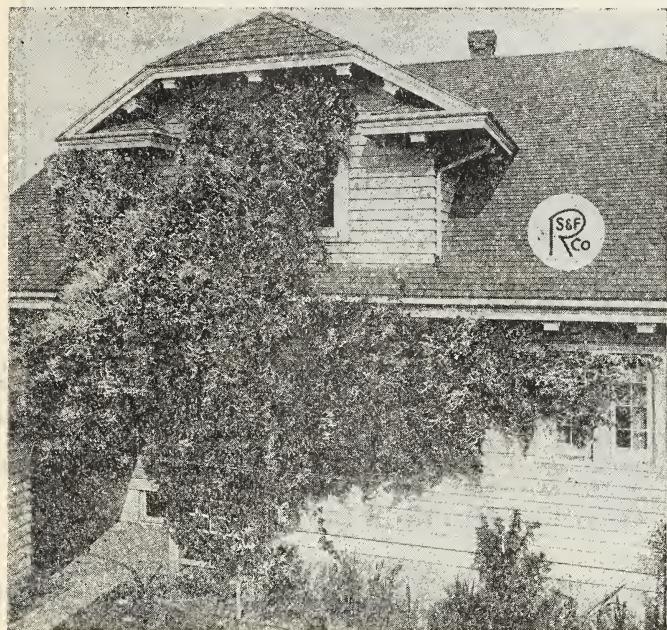
Choice varieties budded into 4 to 5 ft. Standards. Colors, Pink, White, Red, Copper and Yellow. PRICES \$2.50 EACH. SENT BY EXPRESS ONLY.

Ore., April 16, 1929.  
Routledge Seed & Floral Co.

Gentlemen: My roots and berry vines arrived in good shape and in time. All are growing fine, am well pleased.

O. V. DURGIN.

# BEAUTIFUL HARDY CLIMBING VINES



Polygonum Auberti

## POLYGONUM AUBERTI

(Silver Lace Vine)

One of the most desirable flowering climbers we have ever grown. Of strong, vigorous, rapid growth and producing throughout the summer and fall long graceful sprays of small, white, delicate flowers. Clean, neat foliage. Perfectly hardy. The vine in the illustration made a spreading, 15-foot growth the first season and to the top of the house the next season. Trim off surplus growth each fall. Always free of insects.

Each, 75c; Extra Strong Roots, \$1.00

## CINNAMON VINE

A beautiful vine of rapid growth, suitable for porches, trellises, etc.; pretty white flowers of cinnamon-like fragrance. Perfectly hardy. Vines die in the fall but come up rapidly early each spring.

Small roots, 20c; 3 for 50c; Large, 25c; 3 for 65c

## HONEYSUCKLE

A beautiful climber, rapid grower and very desirable. Flowers very fragrant.

Your choice. Each, Small 75c; Large \$1.00

**HALLEANA.**—Very popular; almost evergreen; flowers white, passing to yellow.

**BELGICA** (Monthly Fragrant).—Flowers are large; color red and yellow; blooms all summer.

## WISTARIAS

**SINENSIS BLUE.**—A very rapid growing, hardy climber; lovely long panicles of pale blue flowers, produced in the most wonderful profusion.

Each \$1.00; Strong vines, \$1.50

**SINENSIS ALBA.**—Like the preceding, but with beautiful white flowers in long panicles.

Each \$1.00. Strong vines \$1.50

**MULTIJUGA.**—Extra long panicles of deep blue flowers.

Each \$1.50

**BOSTON IVY.**—The popular climbing plant for covering brick, stone or cement walls, etc. Foliage rich olive green, turning to autumn tints in the fall. Strong plants, 50c; extra strong, 60c.

**VIRGINIA CREEPER.**—Large, deep green foliage; red berries in the fall. Each 50c; extra strong 75c.

**ENGLISH IVY.**—Thick, leathery evergreen leaves. Each 35c.

## BIGNONIA

**RADICANS** (The Trumpet Vine)—Grown in nearly every old garden. Orange-scarlet trumpet-shaped flowers almost all summer. A rank growing vine attaining a considerable height when given support. Each 60c.

## CELASTRUS

**SCANDENS** (Bittersweet)—Glossy dark green foliage on long slender growths, covered in June with bright yellow flowers, followed by bright orange colored fruit which remains until winter sets in. Grows in either sun or shade. Perfectly hardy. Each 75c.

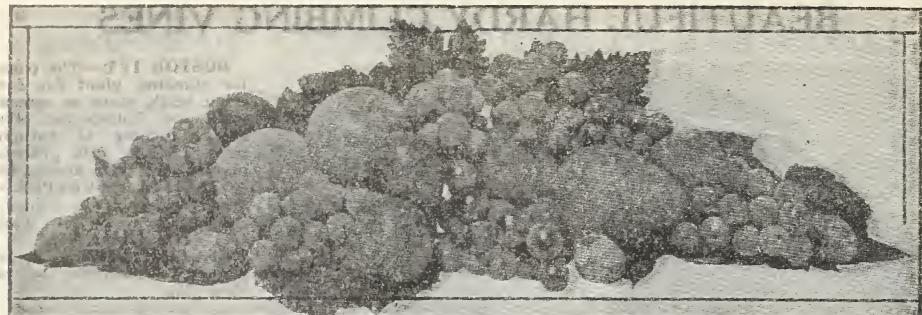
## CLEMATIS

**PANICULATA** (Sweet-Scented Japan Clematis).—Of very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy-green foliage. The flowers are of small size, pure white, and borne in profusion in September and October.

Each, 1-year roots, 35c; 2-year, 50c; 3-year extra strong, \$1.00.



**"MAKE 'EM HOP."**—If you will mix a cup full of "Marvel" Fertilizer with 5 pounds of "H. Q." Sheep and work both thoroughly into the soil around your climbers, you will get wonderful growth and lovely flowers. See pages 37 and 38.



## FRUIT TREES, BUSHES, VINES AND PLANTS

We are making a specialty of select fruit stock. This is an important branch of our business. Our manager has been in this line of work in Oregon for over 20 years.

OUR SHIPPING SEASON for the above is from November 1 to April 1. Some seasons May 1, although May is too late for best results. We advise late fall, open winter or very early spring planting while stock is dormant.

HOW WE SHIP—Unless otherwise instructed, we ship by EXPRESS OR FREIGHT, whichever is cheapest, and the buyer pays the charges.

TREES CANNOT GO BY PARCEL POST, unless you make special arrangements by letter.

CARE OF STOCK UPON ARRIVAL—If you are not ready to plant, dig a trench and "heel" in. If ground is frozen, put in cellar and keep roots damp.

### CONDENSED PRICE LIST

#### APPLES

Summer, Autumn or Winter Varieties	Each	Per 10
One year, 3 to 4 ft.	\$ .50	\$4.50
One year, 4 to 6 ft.	.85	7.50
Two year	1.00	8.50
Three year, select	2.00	

CRAB APPLES.—Same prices as above.

#### PEARS, PLUMS AND PRUNES

Your selection of any well known sorts.

	Each	Per 10
One year, 3 to 4 ft.	\$ .75	\$ 6.00
One year, 4 to 6 ft.	1.00	8.50
Two year	1.25	10.00
Three year, select	2.00	

#### CHERRIES

Your selection of popular sorts.

	Each.	Per 10
One year, 3 to 4 ft.	\$ .85	\$ 7.50
One year, 4 to 6 ft.	1.25	10.00
Two year	1.50	12.50
Three year, select	2.50	

QUINCE ..... 1.00

#### PEACHES AND APRICOTS

	Each.	Per 10
First grade, 1 year	\$1.00	\$ 7.00
1 year, 3 to 4 ft.	.75	6.00

#### GOOSEBERRIES

U. S. quarantine—write for prices.

#### GRAPES

CAMPBELL'S EARLY, CONCORD AND WORDEN, black sorts, or DELAWARE AND EATON, red sorts, or NIAGARA, white. Your choice. Prices—One year, 25c; two year, 40c; selected extra strong, 50c each; 10 times the each price is dozen price. By mail, add 7c each, 50c per doz., for postage. Write for low 100 or 1000 prices.

NURSERY STOCK CATALOG—giving full description of above stock free on request. We will gladly mail you a copy if interested, but you must use above prices for 1929-1930.

#### Dewberries and Loganberries

Strong plants, 30c each; \$3.00 doz., postpaid. Write for low prices per 100 or 1000.

#### BLACKBERRIES

LAWTON, OREGON EVERGREEN or HIMALAYA GIANT. Strong plants, 25c each; \$2.50 doz. Postage, 7c each or 50c doz. extra. Low prices per 100 or 1000.

CORY THORNLESS—2 year, 35c each; \$350 doz., postage extra.

#### RASPBERRIES

##### RED AND BLACK

BLACK CAP—Plum Farmer or Gregg. Strong plants, 20c each; \$2.00 doz. Postage, 7c each, 50c doz. extra.

RED—Cuthbert or Marlboro. Strong plants, 15c each; \$1.50 doz. Postage 7c each; 50c doz. Write for low prices per 100 or 1000.

LA FRANCE-ST. REGIS or GOLDEN QUEEN—Each, 25c; \$2.50 per doz. Postage extra.

#### CURRENTS

U. S. quarantine. Write for prices

#### NUT TREES

ALMONDS—IXL, Nonpareil or Ne Plus Ultra. 1 year, 3 to 3 1/2 ft., each, 75c; 10 for \$6.00; 100 for \$50.00.

#### FILBERTS

Popular and most profitable varieties. Prices: Each, 3 to 4 ft., 75c; 10 for \$6.50; 100 for \$45.00.

#### WALNUTS—English

The Franquette grafted on California black walnut roots.

Prices: 4 to 6 ft., \$2.00; 6 to 8 ft., \$2.50; 8 ft. select, \$3.00; 8 to 10 ft. branched head, \$5.00. Write for quantity price.

## SELECTED STRAINS

## STRAWBERRY PLANTS

## INSPECTED CERTIFIED

Our strawberries are carefully grown, trimmed and packed in the best manner to insure their arrival in good, fresh condition. If you want good, strong, healthy, vigorous plants, and true to name, send to us. Our prices are right; our plants are certified and O. K.

**NEW OREGON.**—One of the finest and most satisfactory strawberries ever introduced. It always looks bright, fresh and attractive. The berry is very large, firm and handsome; rich, dark red, extending to the center. The flavor is rich, sweet and delicious. For table use and canning it cannot be surpassed. The "Oregon" ripens early and continues in bearing until late in the season. Most popular and most profitable variety.

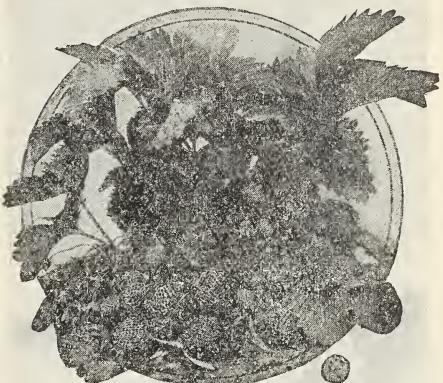
**CLARK'S SEEDLING.**—The berry that has made Hood River famous for its excellent strawberries. Excellent shipper; berries large, firm and of delicious flavor; vines bear large crops; is especially adapted to the Pacific Coast.

**PRICE LIST.**—Your choice of above varieties, PRE-PAID, doz., 30c; 50 plants, 85c; 100, \$1.50. NOT PREPAID, doz., 25c; 50 plants, 60c; 100, \$1.00; 1,000, \$8.00. Special prices in large lots.

**MASTODON EVERBEARING.**—A recent introduction that has created nation-wide interest. Mastodon is very prolific and the berries are extra large, choice, good color, and delicious flavor. Mastodon is a strong grower and plant producer. It fruits under all conditions and will give you berries in abundance from early spring until late fall. Mastodon is the last word in Everbearers and a moneymaker.

**PRICES.**—Prepaid, doz., 75c; 25, \$1.25; 100, \$3.00. Not prepaid, 100, \$2.50; 1,000, \$20.00.

Note.—Plants can be dug and shipped any time from November 1 to late spring.



Oregon Grown, Heavy Yielders

### Progressive Everbearing Strawberries

Popular strawberries on account of their long fruiting season. They will yield a good spring crop, then take a short rest and then produce a large crop in the late fall when berries are scarce and high in price. Berries medium large, rather bright red in color and of excellent quality. Extremely hardy, bearing until the ground freezes. Most popular everbearing variety.

**PRICES.**—Doz., 50c; 25 plants, 75c; 100, \$2.00, prepaid. Not prepaid, doz., 35c; \$1.75 per 100; \$15.00 per 1,000.

### ASPARAGUS ROOTS

**NEW WASHINGTON.**—The plants we offer have been grown from seed of the most uniform rust-resistant, highest yielding, largest in size and quickest growing plants from the latest selections, by the U. S. Department of Agriculture. Large, straight, dark green shoots of excellent quality, with tips that are tight and firm until well out of the ground.

**PRICES:** No. 1 Roots—(Generally listed as 2-year). Prepaid, doz., 50c; 50 for \$1.00; 100 for \$1.50. Not Prepaid, doz., 40c; 100 for \$1.25; 1,000, \$8.00.

No. 2 Roots—(Generally listed as 1-year). Prepaid, doz., 35c; 50, 75c; 100, \$1.00. Not Prepaid, doz., 25c; 100, 85c; 1,000, \$6.00.

Select 3-yr. Roots.—Prepaid, doz., 75c; 50 for \$1.50; 100 for \$2.50. Not Prepaid, doz., 60c; 50 for \$1.35; 100 for \$2.25.

### HORSERADISH ROOTS

Plant in the spring 18 to 24 inches apart. Set the whole root small end down.

**PRICES:** 2 for 15c; 50c per doz.; \$2.00 per 100. Low prices by the 1,000. Crown Root.—Quick results, 15c each; doz., \$1.00.

**FERTILIZER.**—To grow big crops of Asparagus and Rhubarb you must apply each year a liberal amount of good fertilizer. WE HAVE IT.—See pages 37 and 38.

### RHUBARB

#### PIE PLANT—WINE PLANT

Plant in the fall or early spring from 3 to 4 feet apart, in the richest soil you have, or can prepare. NEW BOOK: "Rhubarb Culture," a complete guide to dark forcing and field culture (well illustrated), 130 pages, \$1.25.

**RIVERSIDE GIANT.**—Is a quick, very early grower, producing very freely giant, heavy stalks, that are exceedingly tender, brittle and of the finest flavor and color. A "peerless" rhubarb for home gardens or for commercial plantings.

We supply strong, healthy, divided roots, the only safe way. Roots from seed do not come true.

**SINGLE EYE.**—Postpaid, each, 15c; doz., \$1.50. Not postpaid, doz., \$1.25; 100, \$7.50.

**DOUBLE EYE.**—Postpaid, each, 25c; doz., \$2.50. Not Postpaid, each, 20c; doz., \$2.00; 100, \$10.00.

**TRANSPLANTS.**—Grown one year from single-eye, large, vigorous, healthy roots, each, 25c; doz., \$3.00, not prepaid. By Mail, 7c each; 50c doz. extra.

### HOP ROOTS

Oregon's Famous English Cluster Hops. Regular Root Cuttings, 10c each, 3 for 25c; 75c doz.; \$4.00 per 100, postpaid. Low prices by the 1,000.

# HARDY FLOWERING & ORNAMENTAL SHRUBS

NOTE.—"D" following the name stands for Deciduous, "E" Evergreens.

**SHIPPING.**—At the prices given we send large, well branched bushes from 2 to 5 years old, grown in the open ground. As our shrubs are, for the most part, large and heavy, we usually send them by express or freight. By request, small sizes can be sent by parcel post, but you should ADD AT LEAST 15c TO 20c EXTRA PER SINGLE PLANT to cover packing and postage.



Deutzia—Pride of Rochester

## ALMOND (D)

Almond, Flowering.—Elegant flowering shrubs or small trees bearing a profusion of beautiful double flowers before the leaves appear. The very first of all shrubs to bloom in the spring. A fine subject for the lawn or hardy border. We have two sorts—PINK or WHITE. Each \$1.50

## AZALEA (D)

MOLLIS.—Rather dwarf shrubs, covered in early spring before leaves appear with very attractive flowers. PINK, WHITE, RED or YELLOW. A rare and choice shrub. Select plants, each, \$3.00. For CRIMSON AZALEA, see page 100.

## BARBERRY

Fine for massing, banking, hedges or even as single specimens. Dainty, early flowers, showy, small leaved foliage and berries in the fall and winter make them very popular.

THUNBERGII (D).—A beautiful Japan variety of dwarf habit. Small foliage, changing yellow and red in autumn. Scarlet berries all winter. Each, 75c and \$1.00

ATROPURPUREUM.—New. Foliage a rich, lustrous red all season, more brilliant in the fall. Each, 75c to \$1.25

## BUDDLEYA (D)—Butterfly Bush

MAGNIFICA.—A fine, hardy shrub; is of fast-growing habit. Cut back half way or more every fall after frosts, mulch and fertilize, and you will have a wonderful lot of flowers. It produces long, graceful, slender branches, terminating in long spikes of "Lilac-like" flowers of a beautiful lavender-blue. Commences to bloom in June. It is a fine subject for lawn planting and shrubbery groups. Small plants, 75c each; extra strong, 3 to 4 ft., \$1.00 to \$1.25.

**FEED YOUR PLANTS.**—You must supply "food," in other words, fertilizer, if you want the best results. Read about "Fertilizers," pages 37-39.

## COTONEASTER (E)

SIMONSII.—Most popular variety, upright, spreading growth, 4 to 8 feet high, having glossy green leaves which are evergreen in this locality. Pretty pink flowers in summer, followed by lovely clusters of scarlet berries, which remain on the branches all winter. Small, 60c; large, 75c to \$1.00

HORIZONTALIS.—A low-growing shrub seldom exceeding 1 foot in height, but with its horizontal branches spreading over a large area in a few years. Small evergreen leaves, pinkish-white flowers, followed by bright scarlet berries which remain on the branches nearly all winter. A fine shrub for terrace or rockery.

Small, 60c; large, 75c to \$1.00

MICROPHILA.—Similar to above, but more dwarf and smaller foliage, best for rockeries.

Small, 60c; large, 75c to \$1.00

FRANCHETTI.—Upright, of graceful, drooping branches, covered with a mass of red berries in fall and winter; very desirable.

Small, 60c; large, 75c to \$1.00

## DEUTZIAS (D)

Their hardihood, fine habit, luxuriant foliage and profusion of attractive flowers in May and June render them among the most beautiful and most popular of flowering shrubs.

Your choice, each 75c to \$1.00

GRACILIS.—Dwarf growing with slender sprays of pretty white flowers very early in the spring. A beautiful shrub.

LEMOINEI.—Flowers large and of purest white; grows 3 to 4 feet tall.

SERABA PLENA.—Beautiful foliage and double pink flowers in profusion. June.

PRIDE OF ROCHESTER.—Flowers very early, double; pure white, tinged with blush; great profusion. Grows 6 to 8 feet.

## DOGWOOD (D)

FLOWERING, *Cornus Florida*.—This is the most beautiful of all the large flowering Dwarf Dogwoods. The great white blossoms appearing in early spring are followed by clusters of red berries and rich red foliage in the fall. Each, 2 to 3 ft., \$1.50

## FORSYTHIA (D)—Golden Bells

SUSPENSA FORTUNI (Golden Bell).—This splendid old shrub growing 8 to 10 feet tall lights up the garden with glinting masses of yellow very early in the spring before the leaves appear. Their bright golden flowers, often appearing before the snow is gone, vie with the Crocus as harbingers of spring.

Each, 75c to \$1.00

## GENISTA (E)—Broom

Bushy, upright, leafless evergreens. Flowers freely in early spring and summer.

Your choice, 1½ to 2 feet, \$1.00; 2 to 2½ ft., \$1.50

## BRIDAL VEIL (Alba).—Pure white.

PARADISE (Andreae).—Red and yellow flowers; very pretty.

SCOTCH.—Rapid growing; yellow flowers in May. (Nursery grown plants.)

SPANISH.—Yellow flowers; elegant foliage; blooms all summer.

Wash., May 2, 1929.

Routledge Seed & Floral Co.  
Portland, OregonDear Sirs: Received the trees and shrubs  
in good condition. Thanks for the Hawthorne.

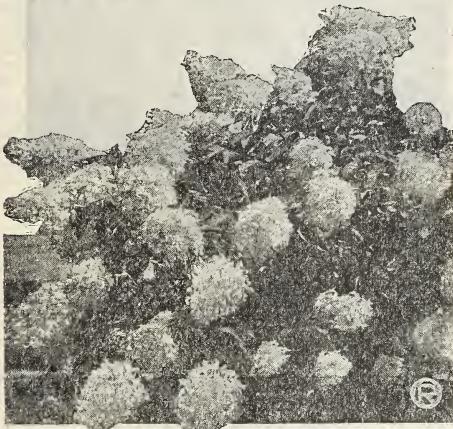
MRS. J. W. RICHARDSON.

## HYDRANGEA (D)

**HORTENSIA.**—One of our most popular and showy lawn plants. Often grows in pots or tubs. Ornamental foliage and beautiful flowers in large, flat trusses. (See cut.)

The beautiful pink variety is most popular, but we can supply White, Pink or Blue.

Young plants, 50c. Large plants according to size and number of flower shoots. Small plants, 75c; medium, \$1.00; large specimen plants, \$1.50 to \$2.50 (See cut.)



Hydrangea Paniculata Grandiflora

**H. PANICULATA GRANDIFLORA.**—The grandest as well as the most popular of all shrubs, and hundreds of thousands of them are sold every year; excellent for hedges or massing; unsurpassed for the lawn; blooms in July and August and continues in bloom for two or three months. The flowers are massive, cone-shaped, sometimes 10 inches in length and changing from the original pure white to pink, and finally to a beautiful rich coppery red.

Each, 1 to 1½ ft., \$1.00; 2 ft., \$1.50

**STANDARDS, TREE-SHAPED.**—Same as above.

Each, 2 to 3 ft., \$1.50; 3 to 4 ft., \$2.50

## KERRIA

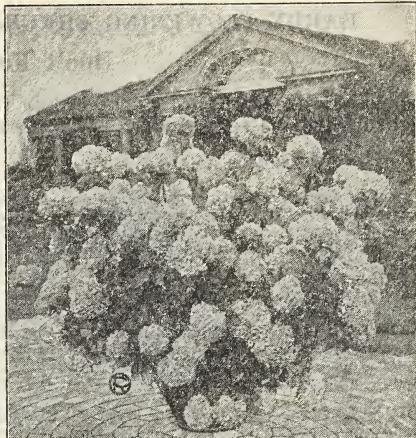
**JAPONICA.**—A distinct and valuable shrub; bears double, golden-yellow flowers all summer; in winter its vivid green branches contrast in marked manner with other shrubs. Of graceful habit, with pretty bright-green foliage. Each, 1½ to 3 ft., 75c to \$1.50

## LILACS (D)

A very neat, handsome growing little tree and a great favorite for planting in yard and lawn. Blooms early in the spring; flowers in immense clusters. Everyone loves the Lilac and no garden is complete without one or more.

**COMMON SINGLE WHITE OR PURPLE.**—Grafted.

Each, 3 to 4 ft., \$1.00

**FRENCH VARIETIES.**—Budded. \$1.50 to \$2.50

Hydrangea Hortensia

## TAMARIX

**TAMARIX AFRICANA.**—A beautiful shrub with small leaves; similar to the Juniper; flowers are pink, small and delicate, borne on long graceful spikes; blooms in May. Each, 1½ ft., 75c**QUINCE (D)**—Cydonia**JAPONICA.**—Bright scarlet, single flowers early in the spring, before the leaves appear. Thorny, compact growth. One of our best hardy shrubs.

Each, 1½ to 2 ft., \$1.00

## SNOWBALL (D)

**STERILIS** (Common Snowball).—Blooms in latter part of May. Large balls of pure white flowers. Every one should plant a Snowball. Each, small plants, 1½ to 2 ft., 75c; 2 to 3 ft., \$1.00**PLICATUM** (Japanese Snowball).—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers; covered with bloom for weeks in the spring; grows 4 to 6 feet high; entirely hardy.

Each, 1½ to 2 ft., \$1.25

## SNOWBERRY

**SYMPHORICARPOS RACEMOSUS.**—A slender branched upright shrub, valuable for planting in shady places; berries are a pure, snow-white; flowers large rose colored.

Each, 1½ to 2 ft., 75c; 2 to 3 ft., \$1.00

**SPIREA**—See top next page.

## WEIGELA (D)

Beautiful shrubs that bloom in May, June and July. The beautiful trumpet-shaped flowers are produced in so great profusion as to almost entirely hide the foliage. They are very desirable for the border or grouping, and as single specimen plants.

**PRICES.**—Following, Each, 75c and \$1.00.**BELLE DE BOSKOOP.**—A choice sort, producing dark-red flowers and dark-green foliage.**HYBRIDA CANDIDA.**—Beautiful white flowers on slender branches.**ROSEA.**—Lovely, large, light-pink flowers, borne in profusion.**EVA RATHKE.**—This variety is quite scarce and rare. Has beautiful carmine-red flowers. Free bloomer.

Each, \$1.00

## HARDY FLOWERING SHRUBS AND ORNAMENTALS—Continued

## Don't Forget Postage

Unless 15c to 20c per plant, according to size wanted, is sent for packing and postage all shrubs will be sent express at your expense. Read Shipping, top page 98.

## SPIREAS (D)

Graceful shrubs, everyone should plant. All the Spireas bloom with a riotous extravagance which makes them quite striking. Their individual style, color and habits of growth differ so markedly, that a collection of varieties will insure bloom the entire season.

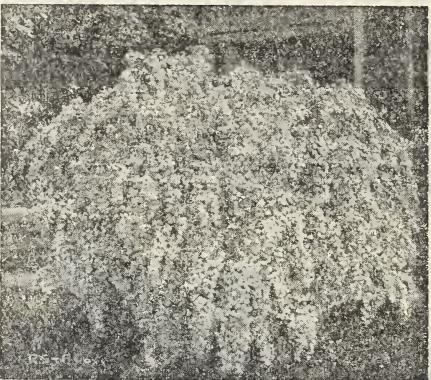
PRICES.—Following kinds, Each, 75c to \$1.00.

**VAN HOUTTEI.**—A beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing, and an early bloomer. (See cut.)

**THUNBERGII.**—Of graceful habit; slender branches, dense green foliage; early white flowers in feathery masses.

**PRUNIFOLIA** (Bridal Wreath).—Slender, erect-growing, small double white flowers the entire length of its slender branches.

**ANTHONY WATERER.**—Large umbels of deep crimson flowers. Dwarf bush.

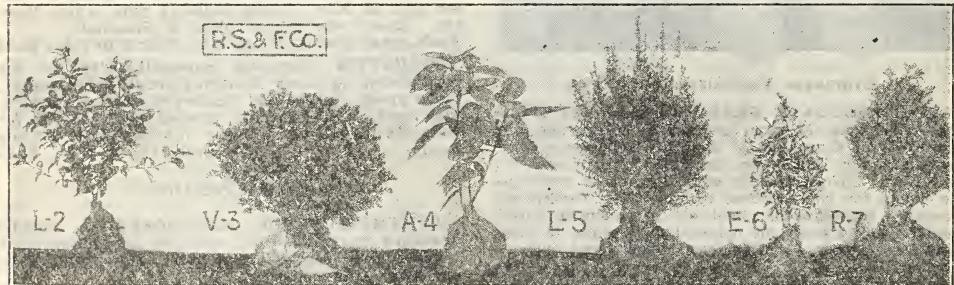


Spirea Van Houtte

## EVERGREEN SHRUBS AND TREES

In moving evergreens, they are generally taken up with a ball of earth about the roots; this makes it necessary to ship them by express or freight only. The stock we offer has been moved in the nursery every two years. This insures their living, and they are worth double the ordinary stock.

Not Mailable—These stocks must go by express or freight.



## ABELIA

A Chinese shrub of rather recent introduction that is highly satisfactory here and rapidly becoming very popular. A graceful, low growing evergreen with dark, glossy, rather delicate leaves and handsome clusters of light pink flowers that turn to rosy pink. In bloom from June to late fall. Small, \$1.00; select, \$1.50 to \$1.75.

## ARBOR VITAE—THUJA

An attractive, hardy, compact, upright evergreen of beautiful appearance. Highly ornamental and desirable.

**AMERICAN.**—Soft, deep green foliage, pyramidal form. Each, 2 to 2 1/2 ft., \$3.00; 2 1/2 to 3 ft., \$3.50

**GLOBOSA**—Globe shaped, green, hardy; good for foreground or tubs. Each, 15 to 18 in., \$2.75

**GOLDEN ORIENTAL.**—Variegated golden to bright green; very attractive.

Each, 2 to 2 1/2 ft., \$3.00; 2 1/2 to 3 ft., \$3.50

## ACUBA

**JAPONICA.**—Beautiful, broad-leaved evergreen, with leaves speckled and striped golden yellow; elegant shrub for specimen on the lawn, or for planting among other shrubbery; bears bright red berries in winter time. See cut (A4).

**VARIEGATED.**—Each, 1 to 2 ft., \$1.75; 2 to 3 ft., \$2.50.

## AZALEA

**HINODEGIRI.**—A hardy evergreen of dwarf, compact growth, glossy green leaves; flowers dazzling crimson in the early spring; very showy.

Each, 12 to 15 in., \$2.50; 15 to 18 in., \$3.00

**KIUSIANA.**—Similar to above. Bush more spreading. Same prices as above.

**DON'T** Be misled by the fine catalogs with little prices sent out from the East. Buy our field-grown plant, much larger and better than the weakly Eastern stock.

## Evergreen—Continued

FREE BOOKLET  
—16 PAGES—  
"How to Plant 'Em  
So They Live"

Free on Request  
with Nursery  
Stock.

## Barberry

D A R W I N I.—A shrub with small holly-like leaves and blue berries; clusters of yellow flowers adorn the branches in early spring. Each,  $1\frac{1}{2}$  to 2 ft., \$1.50; 1 to  $1\frac{1}{2}$  ft., \$1.00.

BUXIFOLIA (Box Barberry).—A new dwarf growing variety admirably adapted for low borders or hedges or single specimens for lawn or porch urns. Leaves small, dark green, small orange flowers in spring, dark purple berries in fall.  
Each, 8 to 12 in., \$1.00; 12 to 15 in., \$1.50

## BOXWOOD

A compact, small leaved true evergreen for hedges or open planting.

SEMPERVIRENS (Suffruticosa).—Fine for borders, edgings or low hedges. Hedge plants, 6 to 8 in. bushy plants. Each, 80c; per 100, \$25.00.

TREE BOX (Sempervirens Arborescens).—Small leaved, admirably adapted for lawn decoration; can be kept trimmed into most any shape.  
Slipped Specimen, \$2.00 per foot

## CAMELLIA

JAPONICA.—Choice evergreen shrub bearing double wax-like flowers in shades of pink, red or white. Each, 1 to  $1\frac{1}{2}$  ft., \$2.50;  $1\frac{1}{2}$  to 2 ft., \$3.00

## CRYPTOMERIA

JAPANESE.—A beautiful evergreen with delicate green foliage and graceful habit; color changes to reddish-brown in winter. (Cut C-11)

Each, \$2.00 to \$3.00

JAP. ELEGANS.—Fine dense bronze-green foliage. Each, \$2.00 to \$3.00

## CYPRESS

Extremely graceful evergreens that grow into fine tall symmetrical forms. Very satisfactory as single specimens, in masses or for screens and hedges.

LAWTON (L-10).—Strong, hardy variety; foliage deep green; used extensively for hedges and wind breaks; quite a rapid grower.  
Each,  $1\frac{1}{2}$  to 2 ft., \$2.00; 3 to 4 ft., \$2.75

ALUMNI (see cut A15, next page).—Erect grower, foliage deep bluish-green; very handsome variety.  
Each, 2 to  $2\frac{1}{2}$  ft., \$3.00; 3 to 4 ft., \$4.00

WESSLII.—A tall, upright grower; fine foliage of bluish-green color; soon makes a tall, cylindrical compact specimen (see illustration A12).  
Each, 2 to 3 ft., \$2.00 to \$4.00

## DAPHNE

ODORATA.—Superb evergreen shrub of compact growth with glossy dark green leaves sometimes bordered with white. Bears in early summer clusters of small flowers of exquisite fragrance.

WHITE OR PURPLE— $1\frac{1}{2}$  to 2 ft., \$3.00; 2 to 3 ft., \$3.50.

CNAEORUM.—Low-spreading, dark green leaves. Pink fragrant flowers, early and late; fine for rockeries.  
Each, \$2.50 to \$3.00

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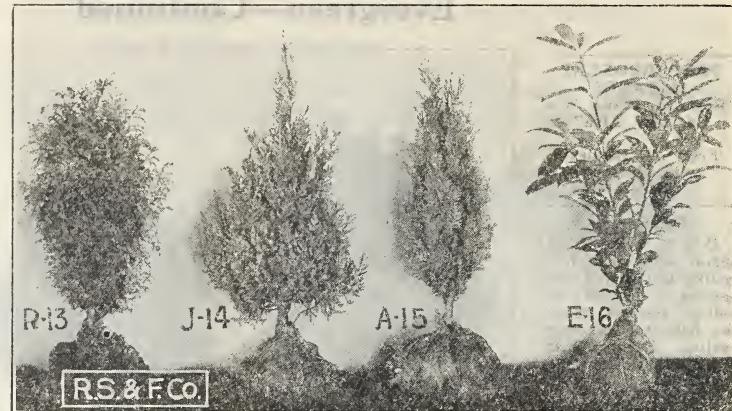
## LONICERA (E)

(Evergreen Bush  
Honeysuckle)

A comparatively new introduction. A very neat, medium-sized hardy shrub that is becoming very popular for mass and border planting. Excellent for low hedges, as it can be sheared or grown open.

**LONICERA NITIDA.**—A hardy evergreen bushy shrub of distinct habit. Densely covered with small ovate leathery leaves. Fragrant creamy-white flowers in early summer.

1½ to 2 ft., \$1.00



## PERNETTYA

A low-growing shrub, suitable for urns, lawn or cherries in various colors.

**YOUR CHOICE.**—Scarlet, Red and Purple or mixed, each, 15 to 18 in., \$2.00.

## PRIVET

One of the best hedge plants; has small pointed, evergreen leaves; grows rapidly and compactly; stands severe pruning, and can be kept in fine shape with little care.

**CALIFORNIA.**—The most popular variety.

Strong field plants, 12 in. up, per 10, \$1.50; per 50, \$6.00; per 100, \$10.00; 2-year-old plants, 24 in., per 10, \$2.00; per 50, \$8.00; per 100, \$15.00.

**GOLDEN LEAVED** (*Ligustrum Aureum*).—Leaves heavily variegated with golden yellow. A fine ornamental shrub for any situation; very ornamental and attractive. Each, 1½ to 2 ft., \$1.50

**JAPANESE** (*Ligustrum Japonica*).—A strong upright grower, with medium sized, broad, pointed dark green leaves; white flowers in panicles, followed by bluish-black berries.

Each, 1½ to 2 ft., \$1.50

## PYRANCATHA

**EVERGREEN FIRETHORN.**—Very desirable spring shrub. Narrow green leaves. Small, white flowers, followed by showy bright berries for fall and winter show.

**AUGUSTIFOLIA.**—Tall growing, large yellow berries. Each, 1½ to 2 ft., \$1.25; 2 to 3 ft., \$2.00

**COCCINEA LELANDI.**—Of more spreading and slender habit than the preceding varieties, growing into a large, upright, graceful shrub. White flowers in the spring, followed by masses of orange-scarlet berries all winter.

Each, 1½ ft., \$1.00; 2 to 2½ ft., \$2.00

**CRENULATA.**—The berries on this variety are showy and lasting and bright scarlet. Very conspicuous in fall and winter months. Very hardy.

Each, 1½ to 2 ft., \$1.25; 2 to 2½ ft., \$2.00

## YEW—TAXUS

Small, tall growing evergreens that are highly ornamental for formal effects.

**IRISH.**—Remarkably upright and slim in form, foliage of very compact habit and of glossy dark green.

Each, 15 to 18 in., \$3.00; 1½ to 2 ft., \$4.00

**VARIEGATED IRISH.**—Same as above with golden variegated foliage; very attractive.

Each 15 to 18 in. \$3.50; 18 to 24 in. \$4.50

**SHIPPING CHARGES.**—Evergreen trees that are balled and burlapped, go safely by freight. They should be packed in crates or boxes, and on account of extra per tree, to partly cover this expense.

## RETINOSPORA

One of our most showy and valuable evergreens. There is a large class of Retinosporas but the most popular are the varieties described below. They are hardy and thrive under nearly all conditions and can be sheared to keep in size and form desired.

**PLUMOSA** (R-18, page 104).—A fine Japanese variety, hardy and graceful with quite compact, delicate, plume-like foliage of a glaucous green color. Each 1½ ft., 75¢; 2-ft. specimens, \$1.50

**PLUMOSA AUREA** (Golden).—Same as the above with foliage of a golden tint throughout the year, but brighter in the winter.

Each, small, 75¢; 2-ft. specimens, \$1.50

**OBTUSA.**—Very beautiful sort. Foliage of silvery green. Quite a rapid grower, but can be kept down by annual shearing.

Each, small \$1.00; 1½ to 2-ft. specimens \$1.75

## SPRUCE

Popular evergreens. They do well anywhere except on low, wet land. Fine for single specimens on the lawn and for hedges or windbreaks.

**NORWAY** (*Excelsa*).—The most generally planted for ordinary uses. It's a pyramidal, symmetrical and rapid grower. Each, 2 to 2½ ft., \$2.00; 2½ to 3 ft., \$2.50; 3 to 4 ft., \$3.00.

**ENGLEMANNI.**—Slender pyramidal, very hardy and of a soft bluish foliage. Each, 2 to 2½ ft., \$2.50; 2½ to 3 ft. \$2.75; 3 to 4 ft., \$3.00.

**COLORADO BLUE.**—Vigorous, hardy grower; a favorite for large lawns. Pungent foliage varying from green to blue. Each, 1½ to 2 ft., \$3.50; 2½ to 3 ft., \$4.00 to \$5.00.

**THUJA.**—See Arbor Vitae, page 100.

## VERONICA

Prices: Your choice of the following select specimens, 75¢:

**BUXIFOLIA.**—Most compact of the Veronicas. Very small glossy green leaves; spreading compact round plant. (See cut V8, page 103.)

**CUPRESSOIDES.**—Cypress-like foliage, quite distinct from all other varieties. Splendid quick growing. Globular form.

**ERECTA THYMIFOLIA.**—Somewhat similar to Buxifolia, slightly faster growth. Splendid formal plant.

**GLAUCOPHYLLA.**—Semi-spreading, compact shrub, small silvery-grey leaf.

**TRAVERSII.**—Small shrub of upright compact growth; foliage green; tallest of Veronicas.

**VIRBURNUM TINUS.**—See Laurustinus, page 101

SHIPPING CHARGES.—Evergreen trees that are balled and burlapped, go safely by freight. They should be packed in crates or boxes, and on account of extra per tree, to partly cover this expense.

## SHADE AND ORNAMENTAL TREES

The following are our most popular varieties. If you want some other kind, inquire; we, no doubt can supply.

NOTE.—We make a packing and shipping charge on out-of-town orders as follows: One tree, 5¢; 8 trees, \$1.00; 12 trees, \$1.50.

### ASH

**AMERICAN WHITE.**—A fine shade tree. Upright spreading branches forming a round topped crown. A rapid grower.

**BLACK ASH and GREEN ASH.**—Same price.

### BIRCH

Remarkable for its elegance; very graceful; silver bark and slender branches.

**EUROPEAN WHITE.**—Charming tree, gracefully drooping branches, silvery white bark and small, ovate leaves; a combination of attractive characteristics. Each, 4 to 6 ft., \$1.50; 6 to 8 ft., \$2.00; 8 to 10 ft., \$2.50.

**WEEPING CUT LEAF.**—A beautiful and graceful tree for lawn or parking. Each, 5 to 6 ft., \$2.25; 6 to 8 ft., \$3.00; 8 to 10 ft., \$4.00

### BOX ELDER

**ACER NEGUNDO.**—A splendid lawn or parking tree; moderately fast grower; also known as Ash-Leaf Maple. Light green ash-like foliage.

Each, 6 to 8 ft., \$1.50

**NEGUNDO SILVER VARIEGATED.**—This tree always causes comment on account of its attractive foliage and neat growth; leaves mottled green and white. Each, 3 to 4 ft., \$1.75; 4 to 5 ft., \$2.00

**NEGUNDO GOLDEN VARIEGATED.**—Same as above, except the foliage is gold and green. A faster grower. Same prices.

### CATALPA

**WESTERN SPECIOSA.**—Rapid grower, broad deep green leaves and large white blossoms. Highly ornamental. Each, 6 to 8 ft., \$2.00

**UMBRELLA C. BUNGEI.**—Umbrella shaped top. Symmetrical, large green leaves. For lawn, parking and cemetery. Each, 5 to 6 ft. and 1 year head, \$3.00; 2 year top, \$4.00.

### CHERRY—Flowering

**JAPANESE.**—Large double pink flowers in large clusters. Each, 3 to 4 ft., \$1.75; 4 to 5 ft., \$2.50 to 6 ft., \$4.00.

**JAPANESE WEEPING.**—Has slender drooping branches, flowers rose color, before the leaves appear. Each, 4 to 5 ft. with 2 year head, \$5.00

### CRAB—Flowering

**BECHTEL DOUBLE.**—Makes a beautiful display; medium sized tree, fragrant delicate pink flowers. Each, 3 to 4 ft., \$1.50; 4 to 5 ft., \$2.00

**JAPANESE FLOWERING CRABS.**—White or Red. Each, 3 to 4 ft., \$1.50

### DOGWOOD

**CORNUS NUTTALIA.**—One of the handsomest native trees that produce in April or May sheets of 2½ to 3-inch flat flowers on long slender branches. A fine ornamental tree for any purpose. Flowers white.

Each, 6 to 8 ft., \$2.00

### ELM

One of the most popular and best shade trees. Very desirable for street.

**AMERICAN WHITE.**—Cork Bark or English. Each, 6 to 8 ft., \$1.75; 8 to 10 ft., \$2.25

### GOLDEN CHAIN

**LABURNUM VULGARE.**—Clover-shaped leaves, long chains of golden yellow, fragrant flowers.

Each, 6 to 8 ft., \$2.00

### HAWTHORN

**PAUL'S DOUBLE SCARLET.**—Bright scarlet flowers followed by red berries.

Each, 4 to 5 ft., \$2.00; 6 to 8 ft., \$3.00

**WHITE.**—Fragrant white flowers. Each, 5 to 6 ft., \$2.00; 6 to 8 ft., \$2.50

**TRANSPLANTING.**—When transplanting trees of any kind, trim and prune off one-fourth to one-third of last year's growth; the cut roots cannot support the full top the first season.

### HORSE CHESTNUTS

**WHITE FLOWERING.**—6 to 8 ft., \$2.50; 8 to 10 ft., \$3.00.

**RED FLOWERING.**—More dwarf than the White. Each, 5 to 6 ft., \$2.50; 6 to 8 ft., \$3.00

### LINDEN

**AMERICAN.**—A shapely, handsome shade tree; medium fast grower.

Each, 5 to 6 ft., \$1.75; 6 to 8 ft., \$2.00

**EUROPEAN.**—Sweet scented flowers. Each, 6 to 8 ft., \$2.00

### MOUNTAIN ASH

**AMERICAN.**—Very ornamental trees, especially when covered with its clusters of red berries in the fall. Each, 5 to 6 ft., \$1.50; 6 to 8 ft., \$2.00

**EUROPEAN.**—White flowers, red berries. Same prices as above.

### NUT TREES—See Fruit Dept.

### MAPLE

#### LARGE GROWING MAPLES FOR SHADE

Your choice of the following kinds: 6 to 8 ft., \$2.00; 8 to 10 ft., \$2.50; selected, \$3.00.

**NORWAY.**—Of large, compact habit; broad deep green shining foliage, and stout, vigorous growth.

**OREGON.**—Wide-spreading branches and large foliage; very rapid growth.

**SILVER.**—Native tree of rapid growth; foliage bright green above and silvery white beneath.

**SUGAR or HARD.**—Of upright habit of growth; dense shade; extensively used.

**SYCAMORE MAPLE.**—Extra large foliage; very hardy.

**SILVER VARIEGATED.**—See Box Elder.

**VINE MAPLE.**—Light green foliage that turns to orange and scarlet in fall. Each, 4 to 5 ft., \$1.50; 5 to 6 ft., \$2.00; 6 to 8 ft., \$2.50.

### OAK

We can supply Chestnut, Common, English or Scarlet. The Scarlet is valued especially for its brilliant scarlet leaves in the fall.

Each, 6 to 8 ft., \$2.50; specimens, \$3.00

### PLANE (Platanus)

**AMERICAN.**—A beautiful tree, broad foliage, handsome bark. Each, 6 to 8 ft., \$2.50

**ORIENTAL.**—Erect growing, mottled trunk, bright green sawtooth foliage.

Each, 6 to 8 ft., \$2.00; 8 to 10 ft., \$2.50

### POPLAR (D)

These well known trees are planted largely for windbreaks and ornamental purposes; very rapid growers.

**CAROLINA.**—Pyramidal: **LOMBARDY**—Tall and spiraling. Each, 5 to 6 ft., \$1.00; 6 to 8 ft., \$1.50

**SILVER.**—Compact grower, glossy green leaves and silvery beneath.

Each, 5 to 6 ft., \$1.50; 6 to 8 ft., \$2.00

Write for quantity prices, stating size wanted.

### FREE BOOKLET—16 Pages

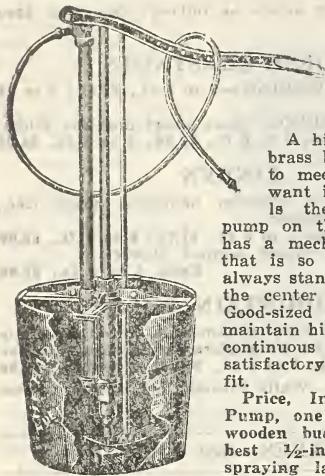
"How to Plant 'Em So They Live"

Free on Request with Nursery Stock.

### WALNUT TREES—See Fruit Dept.

## SPRAY PUMPS AND SPRAYERS

Our experience shows us that if you get a good outfit, one large enough to do your work, you will spray well and as often as necessary.



HARDIE  
BUCKET  
PUMP  
NO. 110

A high-grade, all brass bucket designed to meet the long-felt want in this line. It is the only bucket pump on the market that has a mechanical agitator that is so designed as to always stand in position in the center of the bucket. Good-sized air chamber to maintain high pressure and continuous spray. A very satisfactory and handy outfit.

Price, Including No. 4 Pump, one 5-gallon heavy wooden bucket, three feet best  $\frac{1}{2}$ -inch hose, one spraying lance 18 inches long, one Vermorel nozzle, price complete, \$11.50.

### WHIRLWIND WHITEWASHER

Made especially for whitewashing. Galvanized tin, brass plates, steel footrest, 3 ft. hose, double nozzle. (Wgt. 5 lbs.) See illustration.

Price \$2.75

### HARDIE WHITEWASHING OUTFIT

A real outfit that will do perfect work easily and rapidly. Strong pressure, continuous spray pump is securely fastened into a covered 8-gallon galvanized iron tank. Price complete with 10 feet of hose, 8 ft. rod, leakless stopcock and Vermorel nozzle, \$15.00.

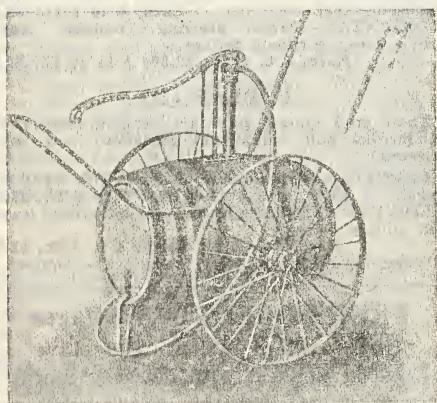
### NO. 32 BRASS BUCKET PUMP

Well made; all working parts brass; larger capacity; bulb air chamber produces continuous spray; works easily; two nozzles. (Wgt. 12 lbs. See cut.)

Price \$4.00

### AUTO SPRAY NO. 5

A very handy double acting high pressure sprayer, throwing a continuous spray. Can be used for general spraying, either fine spray or solid stream. Price, complete (see cut), \$5.00. (P. P. wgt.  $3\frac{1}{2}$  lbs.)



Hardie Wheel Outfit No. 21

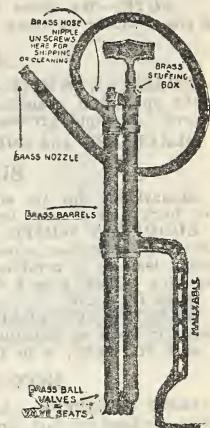
EXTENSION RODS.—For reaching the tops of trees or ceilings, we can supply 8-foot brass extension rods to fit any bucket pump on this page. Price each \$1.00

### NO. 26 O. K.

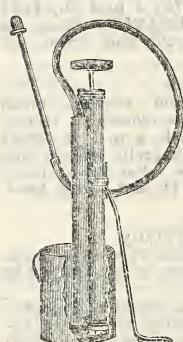
### BUCKET PUMP

(See cut)—Constructed entirely of brass. It is furnished with three feet of best quality rubber hose, detachable; malleable iron stirrup, three interchangeable brass nozzles which throw a fine mist, coarse spray or a solid stream. Pump is provided with large air chamber, with brass ball valves and valve seats. Throws a continuous spray; neat in appearance as well as durable in construction. Much superior to most pumps of this class. (Wgt. 8 lbs.)

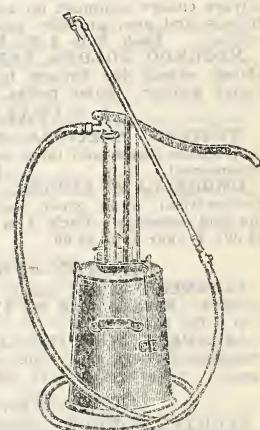
Price \$4.75



O. K. Bucket Pump



No. 28 Whirlwind  
Whitewasher



Hardie Whitewasher

### WHEEL OUTFIT NO. 21

A most satisfactory outfit and one of our best sellers. Especially designed to meet the needs of the small fruitgrower, gardeners and florists, for all-around spraying. It has the capacity and power to do good work rapidly. Dairymen, poultry keepers and farmers will find this outfit most useful for whitewashing, disinfecting and general spraying. The 30-gallon barrel is mounted on strong wrought-iron wheels, 28 inches in diameter, with  $1\frac{1}{2}$ -inch tires. No. 5 pump, 5 feet best hose and couplings, 8-foot bamboo rod and leakless stopcock. 1 Vermorel nozzle.

Price \$33.00



No. 5  
Auto Spray



Browns Auto Spray No. 9

## BROWN'S CONTINUOUS SPRAYER

We recommend this sprayer for use with all agricultural insecticides, disinfectants and household insecticides. It is a most convenient sprayer in the house, in the garden and in the greenhouse. It sprays on both up and down stroke and therefore requires only half the effort to do a thorough job.

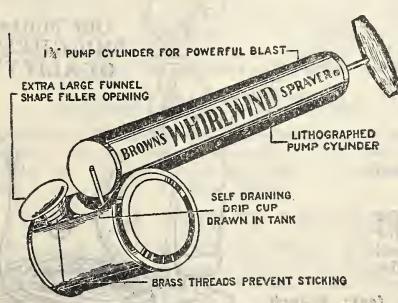
**BROWN'S NO. 26** is the strongest and smoothest working continuous atomizer made. Every part is built extra heavy to make it give super service. Brass ball check valve is easily cleaned. Angle and straight nozzle combined so that they can be easily changed and one not in use will not become lost. Convenient wire legs keep sprayer upright and prevent spilling contents of sprayer. Capacity 1 quart. P. P. Wgt. 2 Lbs.

**PRICES**—No. 26-A, tin, \$1.00. No. 26-B, tin pump, brass tank, \$1.40. No. 26-C, all brass, \$1.50. Guaranteed against cracking.

## No. 26-AG GLASS TANK CONTINUOUS

Same general construction as No. 26 above, but equipped with glass tanks. Any Mason jar will fit. This is a great convenience as you can have several jars of different sprays all ready to use. Simply unscrew one jar and put in another. Weight packed for parcel post, 3 lbs.

**PRICE**—No. 26-AG, \$1.25



No. 216 Whirlwind

**REMEMBER**.—Our New East Side Store, corner East Stark Street and Grand Avenue, carries a full line of all stocks we catalog. No traffic congestion or parking limit there.

BROWN'S AUTO SPRAY NO. 9  
Screw Lock Compressed Air Sprayer

**AUTO SPRAY NO. 9** is built of the best materials and is as correct in design as a sprayer of this type can be made. We have no hesitancy in recommending Brown's Auto-Sprays wherever a compressed air sprayer is needed, for after testing all other sprayers of this style we claim Brown's is the best, gives no trouble and more satisfaction. Will last for years with reasonable care.

The pump is held in place in the tank with a brass thread cap which locks on the pump cylinder and not on the gasket. This makes it possible to lock the pump air tight in the reservoir of this sprayer without any danger of destroying the rubber gasket and is a patented feature.

**SPECIFICATIONS**.—Reservoir capacity 4 gallons. Height over all 25 inches. Diameter 7½ inches. Weight empty 9 lbs. Air pump 2 inch diameter. This sprayer manufactured with either brass or galvanized steel reservoir. Packed only 1 to the carton. Shipping weight 11 lbs.

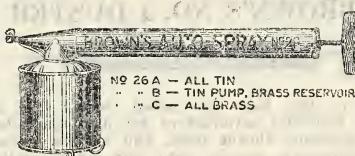
**PRICES**—No. 9-D Galvanized Tank, \$6.95; No. 9-B Brass Tank, \$9.95.

## BROWN'S AUTO SPRAY NO. 50

The construction and equipment of No. 50 is the same as the No. 9 but it is of smaller capacity, holding 2½ gallons. Ideal size for women or for general use where spraying is not excessive.

**SPECIFICATIONS**.—18 inches tall, diameter 7½ inches; weight empty, 6½ lbs.; capacity 2½ gallons. (P. P. wgt. in carton 8 lbs.)

**PRICES**—No. 50-D galvanized tank, \$6.00; No. 50-B brass tank, \$8.50.



No. 26-A, B and C Continuous



No. 26-AG Continuous Sprayer

**ATOMIST SPRAYER, A.**—Similar to above. Made especially for spraying lacquer paint.

**PRICE**—\$1.75.

## NEW WHIRLWIND SPRAYER

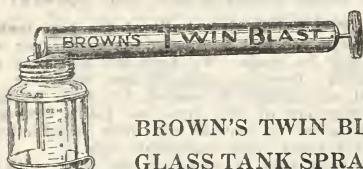
A strong, well balanced, single-acting sprayer of good capacity and well constructed of high-grade material. Far superior to most makes in this style. Capacity 1 quart. (Mailing weight 2 lbs.)

**PRICE WHIRLWIND NO. 216**, tin, 50c.

## LITTLE GEM SPRAYER

Same style as above, well made and durable; capacity ½ pint. Excellent for spraying household insecticides, fly killers, etc. (Mailing weight 1½ lbs.) **PRICE**—GEM NO. 25—Each 40c.

## SPRAY PUMPS AND SPRAYERS—Continued

BROWN'S TWIN BLAST  
GLASS TANK SPRAYER

Well constructed; the glass reservoir which is a quart Mason jar, is not affected by any kind of spray. You can have several jars of different sprays (already prepared) and when you wish to change, take out one and put in another. No delay. Extra long air chamber, special plunger and throws a strong, fine, mist-like spray in any direction. Each, 75c. (Mailing wgt., 2 lbs.)

UTILIX BOTTLE  
SPRAYER

A very neat, practical sprayer for applying a variety of liquids in constant use. The pump is made of brass, nickel-plated and is not affected by any spray solution. It works easily, you simply slip the forefinger in the loop and pump up and down. The nozzle is adjustable for mist-like spray or a fine solid stream. Very useful for spraying disinfectants, insecticides, fly spray, oils, etc., water for dampening clothes and for spraying house plants.

Ideal for spraying cage birds that will not bathe or for plumage restorer. Capacity, 1 pint; height, 10 inches.

Price, complete, \$1.00; postage extra. (P. P. wgt. 1½ lbs.)

## Powder Sprayers, Blowers or Dusters

These are used for applying Sulphur, Bug Death, Bordeaux, etc. Add postage if wanted by mail. Dry powder insecticides are becoming more popular each year.

## CYANOGAS POWDER GUNS

No. 1—Special with hose..... 1.60

(Mailing wgt. 2 lbs.; add postage)

Small Foot Pump..... 4.50

(Mailing weight 4 lbs.)

Large Foot Pump..... 8.00

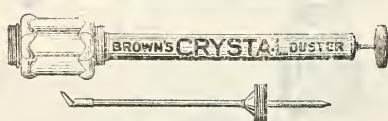
See Cyanogas Powders, page 107.

## BROWN'S NO. 1 DUSTER



This is the best low-priced duster we have found. Perfectly satisfactory for dust controls, in small gardens, flower beds, and shrubs. The tin dust container screws into the pump cylinder. This pump is compact and well made and will not get out of order. Capacity, 1 pt. Price, 60c. (P. P. wgt. 1½ lbs.) Add postage if wanted by mail.

## BROWN'S CRYSTAL DUSTER



Brown's Crystal Duster

New and right up-to-date and double the capacity of the above. This dust blower has the glass jar feature showing the agitation and amount of dust in the container. The large opening in the jar enables easy and quick filling. The long extension and adjustable nozzle enables the operator to easily dust the under side of leaves. Capacity, 1 pt. Price, \$1.50. (P. P. wgt., 2 lbs.)

## SPRAY AND GARDEN HOSE

## ROUTLEDGE HIGHEST QUALITY—Guaranteed

## GADREN HOSE

This hose gives excellent satisfaction. Good enough for any ordinary spraying outfit, and by far the best hose for florists' or garden use. One customer reports that he used a 50-foot length of this grade for four seasons continuously, which proves that it is the cheapest hose to buy.

Price per foot, smooth or corrugated, ½-inch, 12c per foot: ¾-inch, 15c; coupling free on 50-foot lengths.

No. 1 Major Duster

## NO. 1—MAJOR DUSTER

This duster is designed for the home gardener, the small truck farmer or fruit grower, for use in and around the home, dairy, etc. It will handle all dry powdered insecticides very satisfactorily. Diameter of barrel 2½ inches. Fitted with powder strainer and up or down shoot nozzle.

Specifications—Length over all, 28 inches. Extension, 12 inches. (P. P. weight 2 lbs.)

Price \$1.25

## SMALL DUST GUNS

For applying insect powder upon birds or poultry these little guns are unsurpassed. Too small for garden work.

DEFENDER.—1 oz. size, 20c: postpaid, 25c.



HOSE NOZZLES.—Diamond 75c, Fountain Shower 30c, Rainking \$1.50

# SPRAYS, INSECT AND RODENT KILLERS

Don't wait until the fungi such as mildew, rust, black spot, etc., have attacked your roses and trees. The fungicide sprays are merely preventative and should be used in the fall and early in the spring before the buds open. After the disease has developed, it may be too late to save the plant.

DESCRIPTIVE CATALOG, LEAFLETS, BOOKLETS, etc., on many of the following Sprays and Insecticides free on request. Tell us your trouble and we will gladly advise you.

NOTE.—Full directions on each container.

## Sprays in Alphabetical Order

### AFITOX

#### For Flowers, Vegetables, and Shrubs

AFI-TOX is a scientific compound containing nicotine and potash soap in water solution. The soap is not only an insecticide, but also acts as a "spreader," which causes Afi-Tox to spread evenly when properly sprayed.

Afi-Tox will control and destroy Green or Black Aphis, Black or Green Fly, Leaf Hopper, Red Spider, Mites, and Lice, Blight, Red Bud, Squash Bugs, Thrips, etc. Use 3 teaspoonfuls Afi-Tox to a quart of water and cover leaves and plant thoroughly with a fine spray.

Price:  $\frac{1}{2}$  pint, 50c.

### ANTROL ANT KILLER

ANT KILLER.—ANTROL.—Is the most effective eliminator of Argentine and honey dew loving ants known. The largest nurseries and thousands of homes on the Pacific Coast use it exclusively. Antrol is harmless to children or pets, yet eliminates the entire ant colony—quickly and surely.

Prices: Cottage set of 4 storm-proof receptacles and 4 oz. of Antrol Syrup, \$1.00. Syrup only—4 oz. 35c; pints 75c; postage extra.

Descriptive leaflet on request.

### ARSENATE OF LEAD

ARSENATE OF LEAD (Powder).—For eating and leaf-hewing insects, codling moth on fruit. Prices.— $\frac{1}{2}$ -lb. can, 25c; 1 lb., 45c; 4 lbs., \$1.25. Quantity price on request.

### BLUE STONE

BLUE STONE (Vitrol).—Lb. 15c; 10 lbs., \$1.25.

### BLACK LEAF 40

A concentrated solution of nicotine sulphate containing 40 per cent nicotine. Indorsed by the foremost experts of the United States for red bug, green and wooly aphis, thrip, plant lice, codling moth, pear, psylla and all sucking insects.

Price.—1-oz. bottle, 35c makes 5 gallon spray;  $\frac{1}{2}$ -lb. can, \$1.25, makes 47 gallons spray; 2-lb. can, \$3.25, makes 240 gallons spray; 10-lb. can, \$11.85, makes 1,000 gallons spray. Full instructions with each can.

NOTE.—Fish oil soap (see next page), mixed in this solution makes it more effective and is necessary for perfect results. It makes it stick and last longer. Use 4 lbs to 56 gals. solution. Full and detailed instructions with each can.

### BORDEAUX MIXTURE

BORDEAUX MIXTURE (Powdered).—For blight, mildew, rust and fungus diseases. Apply dry as a powder or 1 lb. to 5 gal. of water. Prices: 1 lb., 40c; 5 lbs., \$1.50; 10 lbs., \$2.75.

### BUHACH INSECT POWDER

BUHACH INSECT POWDER.—Kills flies, flees, bedbugs, etc. Small bellow pkt., 10c; large, 25c; 3 oz. can, 40c; 6 oz., 75c; 12 oz., \$1.35. Postage extra.

Spray material subject to market changes. Write for quantity prices. Poisons not mailable. Add postage if small package of mailable sprays or powders are wanted by mail.



For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries. Applied when setting plants or sprayed along the rows. "Cargo" is highly concentrated; use 1 part "Cargo" to 100 to 125 parts of water. Descriptive pamphlet and testimonials on request.

Prices:  $\frac{1}{2}$ -pint 50c; pint 75c; qt. \$1.25; gal. \$3.75. By Mail:  $\frac{1}{2}$ -pint and pt., 10c extra.

### CYANOGAS

"It's the gas that kills them."

CYANOGAS "A".—A powerful powder prepared to destroy rats, moles, gophers, ants, etc., that burrow in the ground. A spoonful to a hole, or better still if blown down the hoe with a Cyanogas Powder Gun or Blower. They cannot dodge its deadly fumes. They die in their tracks. CYANO-GAS Blowers and Guns, page 106.

Prices: 1-lb. cans 75c; 5 lbs. \$2.50; 25 lbs. \$5.25; 100 lbs. \$19.00.

CYANOGAS "G".—Prepared especially for fumigation of greenhouses to kill aphis, blackfly, greenfly, white-fly, thrips and soft scale. This fumigant is very effective and highly recommended by leading florists. Descriptive pamphlet on request.

Prices: 1-lb. cans 75c; 5 lbs. \$3.00; 25 lbs. \$10.00; 100 lbs. \$30.00.

Cyanogas powder not mailable. Handle it with care. Descriptive matter on request.

### COLD WATER PAINT

This is a white paint and disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. Mailable; add postage.

Prices: 3 lbs. 60c; 10 lbs. \$1.50; 50 lbs. \$6.00.

### DERRISOL

#### For Aphis and Sucking Insects

A high-grade, odorless, non-poisonous contact insecticide pleasant to use, that diluted one part with 800 parts of water for controlling aphids or plant lice, thrips, leaf-hoppers, red spiders, mites and sucking insects. It can also be used to control cabbage worms, currant worms and small larvae. Requires no soap or spreader, and can be mixed with other liquid insecticides and fungicides. (One quart to a gallon of water.)

Prices: 1-oz. bottle makes 6 gals., 35c; 8-oz., \$1.25, makes 50 gals.; 1-lb. \$2.25, can make 100 gals; 2-lb. can, \$3.25. Mailable; add postage.

## Sprays, Insect and Rodent Killers—Continued

### END-O-PEST—A Pest Destroyer



END-O-PEST is a new and improved formula for the control of garden pests, such as: EARWIGS, SLUGS, CUTWORMS, SNAILS, SOWBUGS, GRASSHOPPERS and many other garden and lawn pests.

It will not harm plants or grass.

END-O-PEST should be broadcast thoroughly over infested areas. First, wet down areas, then heavily sprinkle the meal on the ground under and around Vegetables, Flowers, Plants, and Shrubs.

Late in the evening is the best time to apply End-O-Pest, because garden and lawn pests usually feed during the night.

Water will not harm End-O-Pest, and best results are obtained when End-O-Pest is damp.

To insure a more lasting control, repeat application in about two weeks, for the ground in the infested area usually contains eggs, which hatch rapidly and cause reinestation.

Prices: 1-lb. Pkg., 35c; 2 lbs., 50c; 3 lbs., 75c; 5 lbs., \$1.00; 10-lb. Bag, \$2.25; 15-lb. Bag, \$2.95; 50-lb. Bag, \$7.50.

### EVER GREEN NON-POISONOUS INSECTICIDE



Kills Beetles, Green Worms, Slugs, Aphids, Leaf Hoppers, Spittlebug and most plant pests, including even Cutworms. Use it freely on tender plants and flowers—it can't burn or otherwise injure them. Neither will it injure the soil.

Non-Poisonous Evergreen kills only insects—it is harmless to man, livestock, birds and pets.

Easy to Use.—Just mix it with water and stir. No need for constant agitating—EVERGREEN stays in solution and won't clog spray-ers.

Evergreen is inexpensive to use as it dilutes in water at the rate of 1 to 5 teaspoonfuls to a gal., or 1 to 100 and 1 to 800 parts of water, according to directions. Leaflet on request.

Prices.—1-oz. bottle, 35c; 6-oz. \$1.00; 16-oz. \$2.00; qt. \$3.50; gal. \$13.00; 5 gal. \$50.00. Small bottles available. POSTAGE EXTRA.

### Fly Sprays

#### STOCK-AID

##### Livestock Fly Protection

STOCKAID is the new animal spray—a 2-in-1 combination. It kills and repels tormenting insects; STOCKAID is harmless to humans and animals but is sure death to every insect it touches and, in addition, repels the advance of all merciless pests for a number of hours.

STOCKAID is quickly and easily applied. It has a pleasant odor and will not stain. Use STOCKAID around the stables, dairies, barnyard, dog kennels, garbage cans, etc. Leaflet on request. Prices: Gal. \$2.00; 5 gal. \$8.00.

Full directions for using on each container or package

### FLY SPRAYS—Continued

FLY-FOIL kills Flies, Moths, Mosquitoes, Roaches, Bed Bugs, Ants, Fleas, Lice and Spiders.

A new kind of spray that instantly seeks out the pests, forces them out of hiding and quickly kills them without the slightest danger as it is non-poisonous to human or animal life. FLY-FOIL will not stain walls, woodwork, or clothes; odor is pleasant and quickly passes away.

Prices: 8-oz. bottle with a mouth blower, 30c; 40c postpaid. Pint 50c, or 60c postpaid.

### FLY-TOX

Fly-Tox Was Scientifically Developed at

Mellon Institute

Kills Flies, Moths, Mosquitoes, Roaches, Bedbugs, Ants, Fleas, Lice and Spiders.

A new kind of spray that instantly seeks out the pests, forces them out of hiding and quickly kills them without the slightest danger as it is non-poisonous to human or animal life.

FLY-TOX will not stain walls, woodwork or clothes; odor is pleasant and quickly passes away. Illustrated and interesting leaflet tells all and gives full directions for using.

PRICES:  $\frac{1}{2}$  pint 50c, or 60c postpaid; 1 pint 75c, or postpaid 90c; 1 qt. \$1.25; 1 gal. \$4.00.

SPECIAL OFFER.—One pint Fly-Tox and a 40c Sprayer for \$1.15, postpaid.



### FISH OIL SOAP

FISH OIL SOAP.—For aphids, plant lice, etc., and to mix with Black Leaf 40 to make it stick to foliage. Prices: Small cake 10c; lb. 25c; 10 lbs. \$2.00; 100 lbs.. write.

### GOPHER SCENT

GOPHER SCENT.—For gophers, squirrels, etc. it will give results or you can have your money back; the scent is irresistible. Prices: 8-oz. can 35c; 12 oz. 50c; 22 oz. \$1.00.

### GRAFTING WAX

GRAFTING WAX.— $\frac{1}{4}$ -lb. 25c;  $\frac{1}{2}$ -lb. 35c; 1 lb. 60c. Add postage if wanted by mail.

We can supply Leaflets on most of the Sprays we offer free on request.

## GAS BALLS

A new product of real merit to eradicate ground squirrels, prairie dogs, rabbits and pocket gophers. When these gas balls are lighted and rolled down into the burrow they produce a deadly, poisonous gas that carries death to any living rodent in the burrow.

They are non-explosive and non-poisonous to handle. Use one or two balls per burrow. Safe, sure and inexpensive. Full directions with each order. Price: 6 for 30c; doz. 40c, postpaid 50c; 3 doz. \$1.00, or \$1.25 postpaid. Carton of 125 balls, \$3.00. Wgt., 14 lbs. Postage extra.



## HELLEBORE POWDER

**HELLEBORE POWDER.**—For killing slugs, currant worms, etc. Non-poisonous to mankind. Use as a powder, or 1 oz. to 8 gal. of water. Prices:  $\frac{1}{2}$  lb. 40c; lb. 75c; postage extra.

## LIME AND SULPHUR SPRAYS

**LIME AND SULPHUR SPRAYS.**—For scale, insects of all kinds, fungus, scab and blister, etc.

**LIME AND SULPHUR SOLUTION.**—(Liquid 1 to 9 parts of water.) Prices: Qt. 30c; gal 75c; 5 gal. \$2.25; 50 gals., write.

**LIME AND SULPHUR.**—Dry Mixed.—12 to 15 lbs. to 50 gal. water for dormant spray. One-quarter strength for summer spray. Prices: 1 lb. 30c; 5 lbs. \$1.35; 10 lbs. \$2.25; 25 lbs. \$4.25; 100 lbs., write.

## MAGOTITE



A Real Root Maggott Remedy; non-injurious to plant life.

Use Mag-o-tite to keep the maggots from eating Raddish, Turnips, all root crops, Cabbage, Onions, Spinach, etc.

**MAG-O-TITE** is to be sprinkled in and over the drills when seedling, and again after the plants are up. Mix a teaspoonful with the soil when setting cabbage plants or over the soil close to the stem if plants are set.

Prices: Add postage if wanted by mail. 2-lb. pkg., 35c; 10-lb. sk., \$1.25; 25-lb. sk., \$2.25; 100-lb. sk., \$8.00.

## NICO-FUME

The purest and most highly refined nicotine product offered for spraying, vaporizing and fumigation in Green Houses.

**NICO-FUME LIQUID** for spraying or vaporizing;  $\frac{1}{2}$ -lb. tin 75c; 1-lb. tin \$2.00; 4-lb. tin \$6.25; 8 lbs. (gal.) \$11.50. (Cannot mail.)

**NICO-FUME TOBACCO POWDER.**—Very effective for fumigating in greenhouses. Pour powder on bare ground or cement walk and light. Full information on cans. 1-lb. can \$1.00; 5 lbs. \$3.75; 10 lbs. \$6.85; postage extra.

## NIAGARA SPRAY DUSTS

Get a good powder gun and with Niagara Dusts you can combat most all garden pests.

No. 6.—"All-In-One" Combination Dust. To prevent disease and attacks of insects. Start early and use it all season. Lb. can 60c.

## PRUNING COMPOUND or PAINT

Always use it over new cuts. It forms an elastic film that seals open cuts. Prices: Qt. cans 65c; gal. \$2.25.

**SPRAY EVERYTHING**—Adequate crop protection is the latest step taken by scientific agriculture—"SAVE BY PROTECTION."

## PESTROY

This combines the insect destroying properties of Arsenate of Lead and the fungus preventative qualities of Bordeaux Mixture. It is put up in dry, powdered form. It is safe and efficient. Use as a powder just as it comes from the package, or in a water solution, same strength Arsenate of Lead powder. Prices: 1 lb. 50c; 4 lbs. \$1.50.

## RAT POISONS

We have tried out dozens of kinds and recommend the following as being the best:

**RAT SCENT.**—A perfect rat poison all ready to use. Dogs and cats won't eat it but rats and mice will take it in preference to any other food. Price: 8-oz. can 35c.

**RAT NIP.**—It's a paste in tin tubes. Squeeze it out on bread, etc. Rats and mice can't resist it. Price 35c.

## SULPHUR

**SULPHUR POWDER (Flour).**—Lb. 10c; 3 lbs. 25c; 10 lbs. 75c; 100 lbs., write.

**SULPHUR CANDLES.**—For fumigating. Each 15c; 2 for 25c. postpaid.

## ROACH AND BED BUG POWDER

**TALBOA'S ROACH POWDER, ANT POWDER or BED BUG POWDER.**—Put up in 25c and 50c cans. Postage 10c extra.

## TREE TANGLEFOOT

**TREE TANGLEFOOT.**—A sticky compound to band trees or large plants to prevent crawling insects from going up the stalks or trunks. Prices: 1-lb. can 60c; 5 lbs. \$2.75; 10 lbs. \$5.25.. Postage extra.

## TOBACCO DUST

**TOBACCO DUST.**—High grade. 1 lb. 15c; 10 lbs. \$1.25.

## VOLCK



In greenhouses and out of doors, for all types of plants and the tenderest of flowers, this material has proven effective. It leaves the foliage bright and glossy.

For killing Red Spider in all stages—eggs, nymphs and adults, VOLCK gives a complete kill and a prolonged control.

Being non-poisonous to people and animals, it is a very pleasant material to use.

Use VOLCK for Cyclamen Mite, White Fly, Aphis (Green Fly), Thrips, Mealy Bugs, Scales, Midge, Mildews and Rusts.

Complete instructions with each can. One pint VOLCK makes 10 gallons spray. Three level teaspoons makes 1 gallon.

**PRICES.**— $\frac{1}{2}$ -pint 50c; pint 75c; quart \$1.00; gallon \$3.00. Small cans will be mailed if you add postage.

## WEED KILLER

**WEED KILLER.**—For killing grass and weeds on tennis courts, paths and roadways. Use 1 part Weed Killer to 40 parts of water and apply with sprinkling can. Prices: Qt. 65c; gal. \$1.85; 5 gals. \$8.00. Write for bbl. price.

## WHALE OIL SOAP

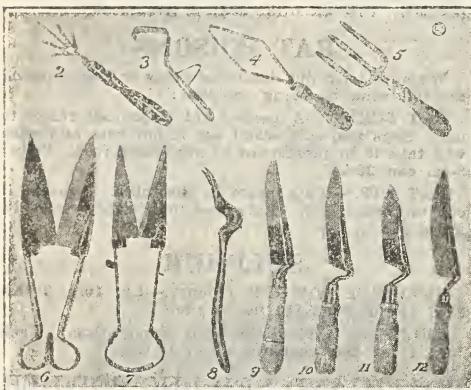
**WHALE OIL SOAP.**—High grade, in bars or boxes. Prices:  $\frac{1}{2}$ -lb. 15c; lb. 25c; 10 lbs. \$1.50. Write for quantity price.

## Miscellaneous Supplies and Tools You Need

### WIRE HANGING BASKETS

Well made of heavy wire and painted green. 6-in. 20c; 8-in. 25c; 10-in. 35c; 12-in. 40c; 14-in. 50c.

GREEN MOSS for baskets, 6c lb.



### GRASS SHEARS

No. 6.—High grade, full polish; 6-inch blade; \$1.00; postpaid, \$1.10.

No. 7.—5½-inch blade; good value, 50c; postpaid, 60c.

### GARDEN TROWELS

Add 10c extra for mailing.

No. 9.—Wood handle, 6-inch steel blade, 35c;

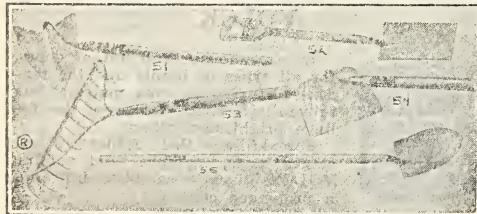
No. 10.—Very strong; all steel; 6-inch. 35c. ..

No. 12.—Best low-priced; 6-inch blade. 15c.

MAYNARD.—6-inch; highest grade. 90c.

TRANSPLANTING.—Narrow blade, high quality.

25c.



### GARDEN TOOLS

Space will not permit us to illustrate and describe all our garden tools. Call or write for prices on anything wanted.

No. (See Illustration.) Each

51.—Best garden hoe; solid steel shank.....\$1.50

52.—Maynard spade, best quality ..... 2.50

53.—Solid steel rake, 18 teeth..... 1.35

54.—XXZ flat hoe, best quality..... 1.35

55.—Maynard pattern steel shovel, very best.. 2.50

The above are the very best. We have cheaper.

TURF EDGER.—Solid steel shank.....\$1.50

### RAFFIA

Natural color, highest quality. Long fibre. Price Per lb., 40c; 10 lbs. 38c; 25 lbs. 35c; postage extra. Write for quantity price.

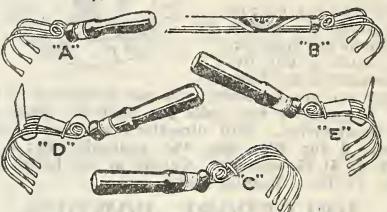
### KNIVES

We keep a stock of high grade folding BUDGING, PRUNING, GRAFTING and POCKET KNIVES at reasonable prices ranging from \$1.75 to \$2.50, postpaid. Exchange or refund if not satisfactory.

Limited catalog space only allows us to show a very small part of our Garden and Lawn Supplies. Call or write for anything wanted.

### HAND WEEDERS

Several good styles. Diamond (see cut No. 4), 25c; Beet, hoe style, 20c; Fork (see cut No. 5), 25c; Excelsior, five-claw (see cut No. 2), 25c; Lang's (see cut No. 8), 25c.



MAGIC WEEDER.—Style "A," 15c; postpaid 20c; Magic "B," 18-inch, 25c; postpaid 35c; Magic "C," 35c; postpaid 45c; Magic "D" or "E," see cut, 50c; postpaid, 60c.



SIMPLEX WEEDER.—Every owner of a lawn needs a Simplex to pull the weeds with the roots. It's simple, sure, and easy to operate; no toy but a real effective, durable tool. Long handle. No back-ache or stiff knees. Most popular garden tool we have. (P. P. wgt. 2 lbs.). Price \$1.25. ADD POSTAGE IF WANTED BY MAIL.



### HAVIL LAWN WEEDER

Has slotted steel prong to hold the weed firmly and a light pressure on the handle removes it completely, root and all if soil is not too dry and hard. Easy to use and does not mar the lawn. Polished wood handle and ball and steel weeder fork. Price 40c; postpaid 50c.

### BERGMAN LAWNMOWER SHARPENER



Adjustable to any make. Easy to use. Simply run sharpener along the cutting blades. Price, \$1.00; postpaid, \$1.10.

## Miscellaneous Supplies and Tools You Need

Remember to add postage if wanted by mail.

### PLANT AND ROSE STAKES

Prices Not Prepaid.

**ROUND STAKES.**— $\frac{1}{8}$  to  $\frac{1}{4}$  inches diameter, painted green, white top. They will last a long time and always look neat. Per doz., 3 ft., 60c; 4 ft., \$1.00; 5 ft., \$1.50; 6 ft., \$1.75.

**WIRE PLANT STAYS.**—Made of heavy steel  $\frac{1}{4}$  inch wire with a loop top into which you can hook a tree label. Indestructible and safe. Prices: 3-foot length, 60c doz.; \$4.00 per 100.

**BAMBOO.**—Pencil size, stained green. Prices: 2 ft., 25c doz., \$1.75 per 100; 3 ft., 30c doz., \$2.00 per 100; 4 ft., 35c doz., \$2.25 per 100.

### WOODEN LABELS

The tree and pot labels we offer below are strictly No. 1 labels, smooth and well made. The painted labels are "really painted," not dipped in oil. Ordinary lead pencil writing on the painted labels is always readable; it will not wash off.

#### Tree Labels

P. P. Wgt. 4 lbs.	12	100	M
Painted, copper wired.....	\$0.10	\$0.35	\$3.00

#### Pot Labels

Wgt. per M.	12	100	M
Painted, 4 in. (P. P. 3 $\frac{1}{2}$ lbs.)	\$0.10	\$0.35	\$2.25
Painted, 5 in. (P. P. 4 $\frac{1}{2}$ lbs.)	.10	.40	3.00
Painted, 6 in. (P. P. 5 lbs.)	.10	.45	3.50

#### Garden Labels

Wgt. per M.	12	100	M
Painted, 8 in. (P. P. 20 lbs.)	\$0.15	\$0.90	\$7.00
Painted, 10 in. (P. P. 25 lbs.)	.25	1.25	10.00
Painted, 12 in. (P. P. 30 lbs.)	.30	1.50	14.00
Painted, 18 in. (P. P. 72 lbs.)	.35	2.25	20.00

#### JARDINIERS

We carry a complete line of Jardiniers, Vases, Flower Bowls and Fancy Art Ware.

### HIGH GRADE PRUNING SHEARS

We offer a good assortment for every purpose for both professional and amateurs. PRICES POSTPAID.

**No. 44** (see cut).—Professional. Highest grade, best style and design; full polish, double brass springs, adjustable lock nut,  $\frac{3}{4}$  inch. Price \$3.85.

**No. 46** (see cut).—Excellent style, full polish, strong and serviceable; 9-inch. Price \$2.25.

**No. 48** (see cut).—Large, strong, durable, black handle, polished blade; 9-inch. Price \$1.50.

**No. 48-B.**—Same style as 48, black handle, polished blade; excellent value; 8-inch. Price \$1.00.

**No. 49.**—Same style as 48 but full polish, handles nicely; 9-inch. Price \$1.75.

**No. 50** (see cut).—Henckel's high grade, full polish. Lock nut, easy to handle, strong and easy cutting; 8 $\frac{1}{2}$ -inch. Price \$3.25.

**No. 54** (see cut).—Nickel finish, highest quality, excellent cutter; patent lock; 8-inch. Price \$3.25.

**No. 60.**—Same style as No. 56. Lacquer finish handle, polished blade. Size 6-inch. Excellent value. Price, 70c. No. 6-A.—Full polish. Price 85c.

### TREE PRUNERS

Long handle tree pruners, indispensable for pruning tall trees. Reliable make, with spring; 6 feet, \$1.75; 8 feet, \$2.00; 10 feet, \$2.35; 12 feet, \$2.80. Extra blades 35c each. See cut No. 60.

### POTS AND SAUCERS



No. 1      No. 2      No. 3      No. 4  
Fig. 1—Fern Dish Filler; 2—Bulb Pan; 3—Azalia or Fern Pot; 4—Standard Flower Pot. All styles same prices. Not mailable.

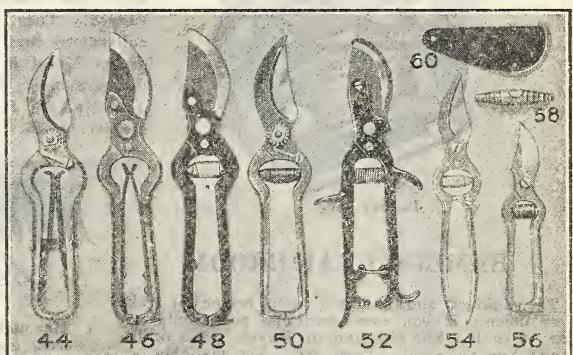
Size	Each	Doz.	Each
2 inches	\$0.03	\$0.25	
2 $\frac{1}{2}$ inches	.04	.30	
3 inches	.04	.35	
3 $\frac{1}{2}$ inches	.05	.45	
5 inches	.06	.50	\$0.95
4 inches	.10	1.00	
6 inches	.15	1.50	.06
7 inches	.20	2.00	.09
8 inches	.30	3.00	.12
9 inches	.50	5.00	.15
10 inches	.70	7.00	.20
12 inches	1.20	12.00	.30

Prices by express or freight. Not mailable.

### SIMPLEX WATERPROOF LABELS

Ordinary pencil writing on the especially treated white celluloid will last for years. The transparent "Mica" cover slides over the writing and is securely held in place, protects the writing under the most severe weather conditions. Names can be removed with ordinary rubber eraser and labels used again.

Prices, with copper wire attachment:  
No. 1— $\frac{1}{2}$  x 3 inches. Dozen, \$ .60; 100, \$3.25  
No. 2— $\frac{3}{4}$  x 4 inches. Dozen, .85; 100, 5.25  
No. 3—1 x 5 inches. Dozen, 1.15; 100, 7.25



Pruning Shears

**No. 56** (see cut).—Nickel finish, excellent quality, for light pruning or cutting flowers; 5 $\frac{1}{2}$ -inch. Price \$1.75; No. 56-A, 6 $\frac{1}{2}$ -inch, each, \$2.75; No. 56-B, 7-inch, each \$3.00.

## Snap — Snap — Snap

SNAP is a powerful cleaning compound (granulated) that contains no lye or dangerous material. SNAP has no Equal for the easy removal of dirt and grim and grease from Dishes, Pots, Kettles, Sinks, Linoleum, Tile, Woodwork, Floors, Windows, Automobiles, etc. Economical in cost as a teaspoonful of SNAP to a gallon of water is enough for ordinary uses and woodwork. For very greasy kettles, dishes, etc., double the amount. For house cleaning of floors, walls, windows, etc., it's a great labor saver. A trial will convince you. Once used, always used. Prices, 1 lb. cartons 40c, 3 cartons for \$1.00; postage extra.

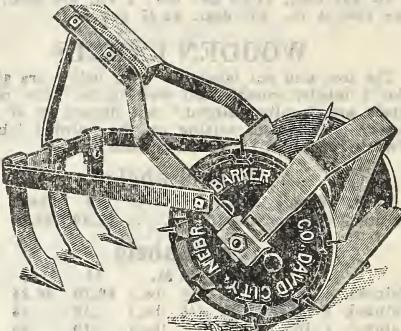
## Barker Weeder, Mulcher and Cultivator

The Barker is three garden tools in one. It has no delicate parts to get out of order and is always ready for use. For deep cultivation use the machine as shown in the illustration, and for weeding and pulverizing the top soil you simply turn it over. No changing or adjusting necessary. The revolving reel blades, working in combination with the stationary weeder knife, destroys the weeds, pulverizes the clods, aerates the soil. The machine is so adjusted that there is about  $\frac{1}{8}$  of an inch space between the reel blades and the stationary knife, the blades revolving over the knife, granulate the top crust so that the soil pours evenly over the knife, leaving a level, perfect soil mulch.

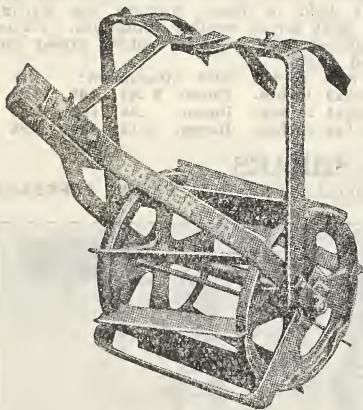
You can do this work as fast as you can walk. We recommend the Barker; it's fast and easy work to operate it.

If the top soil is baked or hard, use the weeder side first and then reverse it and use the cultivator teeth for deeper work. Long, strong handle with cross bar, hand grip.

The barker works to perfection in all soils except large gravel or rocky soil. Descriptive and illustrated folder on request.



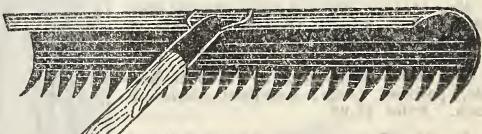
The Original "Barker" Model D



Barker Jr.

## BAMBOO LEAF BROOM

The lightest and handiest lawn broom or rake ever made. If you ever used one you would not part with it. For cleaning up leaves, grass or litter it has no equal. Each 40c. Not mailable.



All Purpose Rake

Unequaled for raking out the lawn dandelions, weeds, etc. Excellent for picking up grass, small twigs, pebbles, etc., that an ordinary rake will not catch. A single backward push cleans the teeth. Long, smooth hardwood handle. Each \$1.00. (Not mailable.)

## PLANET JR. GRASS EDGER

A real success. You can edge as fast as you walk. Steel wheel, with hub to run on walk. Price \$2.00; postpaid \$2.25.



Planet Jr.

PLANET JR. GARDEN TOOLS—Limited space in this catalog will not permit us to show Planet Jr. Seeders, Cultivators, etc., but we will gladly mail you a complete Planet Jr. catalog if you are interested.

## LAWN MOWERS

We do not carry a large variety, but we do offer the most popular standard makes that run easily, wear well and do satisfactory work. There are many cheap machines on the market that are only "disappointment."



**GREAT AMERICAN BALL-BEARING.**—Recognized by all to be the most popular and best; there are many imitations but none quite so satisfactory. Open cylinder, five cutting blades of knife steel; 10-inch wheel, solid cast steel butting knife, hardened in oil; steel balls of highest grade, placed in dust-proof steel cups; cuts close, runs easily, and quickly adjusted. 15-inch \$19.75; 17-inch, \$20.75; 19-inch, \$24.50; 21-inch, \$27.50.

**NORTHERN KING.**—Open cylinders, 4 blades, good quality and best medium-priced mower. 14-inch blade, \$12.50; 16-inch, \$13.50.

**H. Q. LAWN MOWER.**—Next to the Great American we believe this is the best mower on the market for the money. It has all the good features of a first class lawn mower without any poor points. Easy running and durable. Prices: 14-in. \$14.00; 16-in. \$15.00; 18-in. \$16.00.

## Grass Catchers

**SUCCESS.**—Perforated metal bottom, canvas sides. Adjustable for 14 or 18-inch mower. Price, \$1.50.

**FULL CANVAS.**—Good quality, wire frame. Give blade measure for size. Price, \$1.00.

**ROUTLEDGE'S EVERGREEN LAWN GRASS SEED** (page 48) and "MARVEL" and "H. Q. BRAND" FERTILIZER (pages 37 and 38) make those green, velvety lawns so much admired.

## WATER-WEIGHT LAWN ROLLERS

Best lawn roller made. Steel drums can be filled with sand or water to make them heavier. Roller-bearing, easy running. Every lawn, new and old, needs rolling. Ask your gardener. We "rent" these to our customers in Portland, \$2.50 per day.

	Drum Size	Weight Empty	Filled Water	Filled Sand	Portland Prices
No. WB5	18x24 in.	80 lbs.	300 lbs.	500 lbs.	\$18.75
No. WB7	24x24 in.	125 lbs.	500 lbs.	800 lbs.	25.00

## BROADCAST SEEDER



**NEW CYCLONE**  
One of the best broadcast hand sowers in the market. Guaranteed to sow perfectly all varieties farm seeds. Can be regulated to sow any amount per acre. It is strongly built and mechanically perfect. The bag holds  $\frac{1}{2}$  bushel. Easily operated. (Mailing weight 4 lbs. Price, \$2.25.)

**HORN SEEDER.**—Well liked. Each \$1.00.

**CAHOON SEEDER.**—Popular and well known broadcast seeder. Price, \$4.50. (Wgt. 10 lbs.)

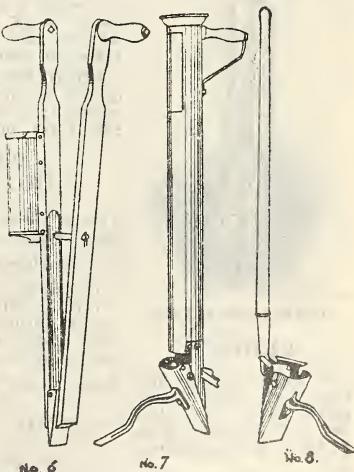
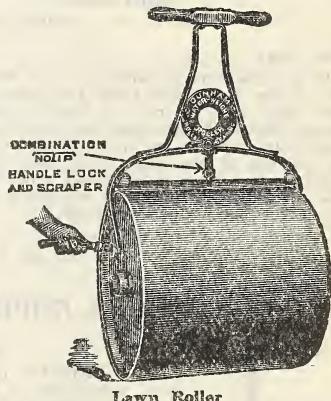
## CORN AND POTATO PLANTERS

Save time, labor and backbone. Add postage if wanted by mail.

**ACME CORN PLANTER.**—(See cut No. 6.) A two-handled planter, light and durable. Adjustable from large to small corn and beans. (P. P. wgt. 6 lbs.) Price \$1.35.

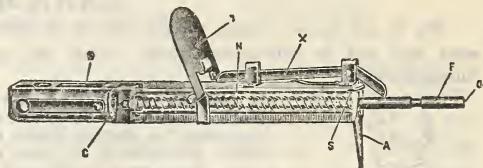
**EUREKA TUBULAR POTATO PLANTER.**—(See cut No. 7.) Plants any size seed, and at an adjustable uniform depth. Opens automatically by forward movement; most satisfactory in every way. (P. P. wgs. 5 lbs.) Price \$1.95.

**PINGREE POTATO PLANTER.**—(See cut No. 8.) Similar to the tubular, but has no tube. You lift the planter up to drop in the potato. (P. P. wgt. 5 lbs.) Price \$1.35.



OUR STOCK OF SWEET OR FIELD CORN AND POTATOES ARE GROWN ESPECIALLY FOR WESTERN PLANTERS. NONE BETTER ANYWHERE.

## THE NEVER-FAIL GOPHER GUN



It is Easy to Kill Gophers and Moles With This Gun

Load gun with a 38 S. & W. Blank cartridge (as sold by dealers everywhere) and set in gopher tunnel. Within a few minutes the gopher will attempt to close the hole, setting off the gun. The concussion kills them every time. For Moles, dig down to main run and set same way. Complete instructions with each gun. Price, \$2.00 each; 3 for \$5.00, postpaid.

Read These Two Reports

Dear Sirs:

About a year ago, after much loss of time and wasted effort with gopher traps and poison in an effort to rid my place of gophers and moles, I purchased two of your "NEVER-FAIL GOPHER GUNS" with the result that at the present time I do not know of one gopher or mole on my place of ten acres.

In that time I have destroyed over two hundred gophers and thirty moles and have never failed.

Yours truly,

JOHN W. HAAS.

Dear Sirs:

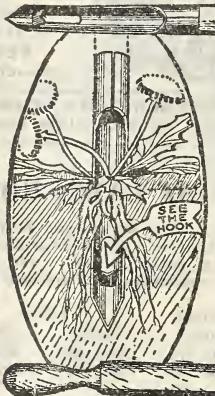
It is a pleasure to write and tell you that with the gopher gun I got from you some time ago I have been able to rid my place of gophers and moles. Before I purchased the gun I was annoyed greatly by gophers and was unable to catch them. By the use of the gun I have been able to completely exterminate them in my property, and feel that the gun is indispensable and would not be without it for many times its price.

Very truly yours,

GALE S. TROUT.

HALL DANDELION PULLER

Here's a tool that gets the dandelion, roots and all, and operator stands up. No wet knees or aching back.



**Directions.**—Just push the blade down in the ground close to the weed, press towards the weed and pull up. A patent hook near point of blade does the trick. A slot prevents dirt from clogging the hook. Study the illustration carefully. Is made of polished steel and will last a lifetime. The only successful dandelion weeder to date. Wooden handle 30 inches long, steel part 8 inches. Price 75c; postpaid, 86c.

MOLE, GOPHER, MOUSE AND RAT TRAPS

MOUSE AND RAT'

**CHOKER** (see cut).—Easy to bait and sure to catch 'em; 4 holes. 20c each; 25c postpaid.

**OFFICIAL** (see cut).—Double acting trigger, extra heavy spring, hardwood base, lasting; sure to catch. **RAT TRAP**, 20c each, 2 for 35c; 7c extra by mail. **MOUSE**, 10c each, 3 for 25c; 3c extra per trap by mail.

**HOLDFAST**.—Most popular and best known bait or foot trigger trap. **RAT TRAP**, 15c each or 20c postpaid; 2 for 35c. **MOUSE**, 5c each, or 2 for 15c, 6 for 40c; doz., 65c, postpaid.

MOLE AND GOPHERS  
OUT O' SIGHT MOLE TRAP

This has been the Standard Mole Trap for many years. It is absolutely reliable.

Directions for setting and full explanation of the mole's habits furnished with each trap. Heavy, powerful spring, malleable iron jaws.

Price, \$1.25; postpaid, \$1.35.

**Reddick Mole Trap**

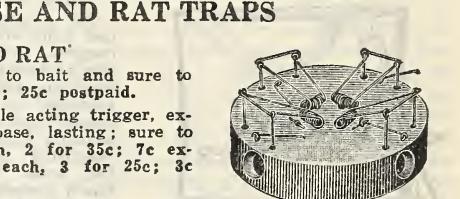
**REDDICK**

A very popular mole trap, 2 ft. high, 6 spear points, well made, lasting and durable. Each, \$1.00, or \$1.30 postpaid.

Price, \$1.25; postpaid, \$1.35.

A box trap to set in the runway. Price: Each.

75c; postpaid, 86c; 2 for \$1.50.



Official



Out o' Sight

CHUBBUCK DOUBLE CATCH TRAP

A box trap to set in the runway. Price: Each.

75c; postpaid, 86c; 2 for \$1.50.



Holdfast

We give the P. P. (Parcel Post) weight so you can add postage if wanted by mail. Don't forget to send it extra.

# NEW AND UP-TO-DATE BOOKS

At your leisure you can learn in a few hours' reading what it has taken others years of time, study and experimenting to find out. Space will not permit us to fully describe these books, but we'll gladly send fuller descriptions upon request.

### All Prices Postpaid

<b>AMERICAN GREENHOUSE CONSTRUCTION</b>	
—by R. T. Muller. Complete in every detail. 152 pages. Cloth bound	..... 1.65
<b>ASPARAGUS—Hexamer</b>	..... \$1.25
<b>BULBS THAT BLOOM IN THE SPRING</b>	
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<b>BUSH FRUIT PRODUCTION.</b> New book by Van Meter—Raise Your Own Raspberries, Blackberries, etc. 125 pages, cloth.....	1.50
<b>BUTTER MAKING.</b> C. A. Publow.....	1.25
<b>GARDEN GUIDE.</b> —The amateur gardener's handbook, 275 illustrations; covers all subjects. Paper cover, \$1.10; cloth, \$1.65.	

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**Poultry Books of Real Value.**—There is money in "Poultry" if you know how. Read what it has taken others years and years of time and experience to learn.

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The best book on this subject—in fact, **THE ONLY COMPLETE ONE.** Grant M. Curtis, 120 pages, 9x12 inches, profusely illustrated. \$1.50.

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By Homer W. Jackson. Nothing equal to this. 820 pages, 200 illustrations and 18 color plates. New edition, de luxe cloth cover, \$3.00.. Paper cover, \$2.00.

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By J. H. Robinson. The most complete book ever published on poultry breeding. Size 8½x12 inches, 160 pages. \$2.00.

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Learn how to hatch and rear your chicks without loss. 80 pages, 9x12. \$0.50.

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Cloth, \$2.50.

### TURKEY RAISING

The latest and most thorough, for the beginner or the experienced; 150 pages; cloth bound; 40 illustrations. \$2.25, postpaid.

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A complete guide to poultry raising by an expert;

Large clear print, on good paper and attractively bound in cloth cover; 5x8; 238 pages. Postpaid, \$1.35.

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The only complete book on this subject. By Curtis and Jackson. Size 8½x12 inches; 128 pages, profusely illustrated. Price \$2.00, postpaid.

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New and enlarged edition, complete in every respect. 448 pages, 200 illustrations. Cloth bound, \$3.50; paper cover, \$2.50.

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Complete, easily kept. Know what you're doing. 45c, postpaid.

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Asiatics. 100 pgs., 9x12 .....

Price, Postpaid \$0.75

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Ask for CATALOGS of GARDEN, HORTICULTURAL BOOKS that give full descriptions and content. Free on request.

## ST. HELENS

HOT WATER  
AND ELECTRIC

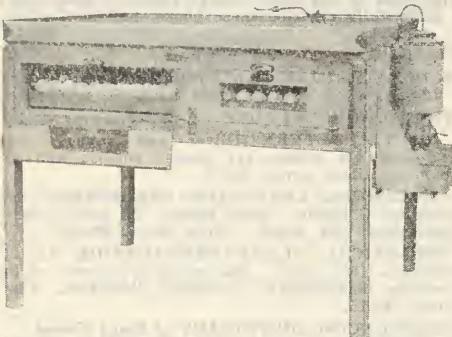
## INCUBATORS

## STANDARD ST. HELENS

We have made arrangements to be sales agents for these up-to-date, well-made, successful hatcher. The 1929 St. Helens Incubators are the result of 25 years' practical experience by a practical poultryman who knows "what's what" and who has made a real success, and who is willing to let you be the judge. They are fully guaranteed for ten years.

**Portland Prices.**—All of the new standard incubators are fitted with automatic egg turners and a new metal enclosed lamp chamber, making them fire-proof.

60-70 Egg Special St. Helens (short legs)	\$14.50
110 Egg St. Helens .....	17.50
140 Egg Standard St. Helens .....	23.25
280 Egg Standard St. Helens .....	31.00
420 Egg Standard St. Helens .....	43.50
560 Egg Standard St. Helens .....	57.00

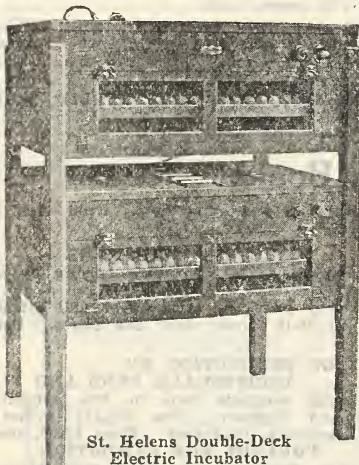
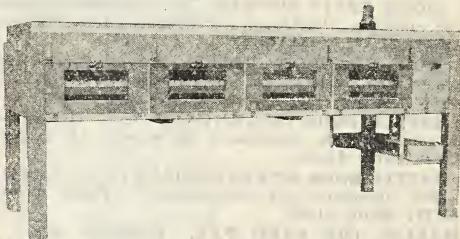


280-Egg St. Helens Standard Incubator

## HATCHERYMAN'S SPECIAL

The new Filtered Air Process—perfect humidity at all times. No guesswork; larger and heavier chicks from every hatchable egg. Automatic egg turners and time saving equipment. Full description on request.

**Portland Prices.**—  
820 Egg Special, 85x53 inches ..... \$60.00  
640 Egg Special, 35x91 inches ..... 96.00

St. Helens Double-Deck  
Electric Incubator

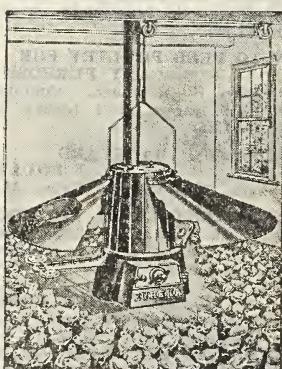
Hatcheryman's Special, 640-Egg

## ST. HELENS ELECTRIC INCUBATOR

The most complete, practical and efficient incubator operated by electricity. Successful in every way. Convenient, safe and no trouble—simply attach to any lamp socket of 110 volts (other voltage to order).

Has the same perfect construction as the new Filtered Air lamp-heated incubators. Complete booklet on request.

**Price.**—You can have one, two or three sections at \$62 per section of 320-egg capacity.



Brooder Perfection Stove

## PERFECTION BROODER STOVE

Here is a stove especially adapted to burning western low grade coal, bark, briquettes or coke. The latest improved, large firebox, wide grates, can't clog as the body flares out. Heavy cast-iron body and automatic heat regulator. Top coal feed. Canopy spreads heat evenly, preventing crowding. Nothing complicated; any person can operate it. All complete with exception of stovepipe.

**Portland Prices.**—42-inch canopy (500 chicks), \$19.00; 62-inch 1500-chick size, \$25.50. Stovepipe extra. Price,—4-inch, black, 24-inch lengths, each 20c.

## QUEEN BROODER STOVES

We have in stock a few of these well known and popular stoves. We sold hundreds of them and no complaints. They are similar in construction to the Perfection and just as good.

The coal door above the canopy on the late models is a great convenience. Automatic heat regulation, O. K. in every way.

**Bargain Price.**—No. 2 (1200-chick capacity), \$23.75.

**ORDER EARLY. DON'T WAIT FOR THE CHICKS TO HATCH.**

**PLEASE NOTE.**—We rate the brooders correct as to number of chicks brooded for best results. They are usually rated much higher. Order Your Brooders Early—Don't wait for the rush season. Special leaflets and information on request.

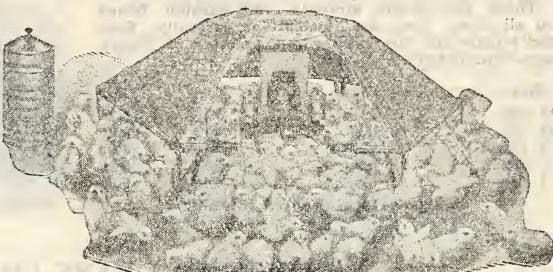
# BROODERS—SUCCESSFUL AND UP-TO-DATE

## SOL-HOT WICKLESS OIL BURNING BROODERS

If you buy a "Sol-Hot" you will have the satisfaction of knowing you are getting one of the best. A brooder that will raise your chicks with less losses, less danger, less worry and with a minimum fuel expense. Can be used in most any kind of a light, properly ventilated room, brooder house or the open front poultry house with drop curtain.

Descriptive folders on request.

We offer you the latest model Twin Float automatic oil level control—100 per cent safe, 100 per cent efficient.



1928 Model Sol-Hot Brooder

Size of Canopy	Chick Capacity	Latest Model
24-inch.	75 to 100.	\$13.00
34-inch.	200 to 300.	\$18.50
44-inch.	400 to 500.	22.00
54-inch.	600 to 1000.	24.50
64-inch Giant.	1000	29.00

## ST. HELENS ELECTRIC BROODER

The best electric brooding device on the market today. Operates at a low cost, easily regulated; automatic in control, gives proper ventilation. Has pilot light, thermometer, extension cord and felt curtains. Folder on request.

Prices, With Full Instructions and Feeding Chart
32-inch hover, 200 chicks.....\$20.75
42-inch hover, 350 chicks.....27.85
52-inch hover, 500 chicks.....34.00
68-inch hover, 750 chicks.....50.00



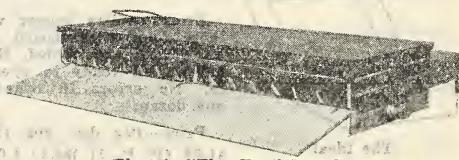
St. Helens Electric Brooder

## ST. HELENS NEW FLAT TOP

### "Under-Heat" Electric Brooder

Claimed to be far in advance of any electric brooding device. Extra heating system for unusually cold spells. Automatic and perfect in every way. Made in 3 sizes. Write for descriptive folder and testimonials.

**PORTLAND PRICES.**—3 by 5 ft., 300-chick capacity, \$39.50; 500-chick, 3 by 8 ft., \$57.50; 1000-chick, 4 by 12 ft., \$83.50.



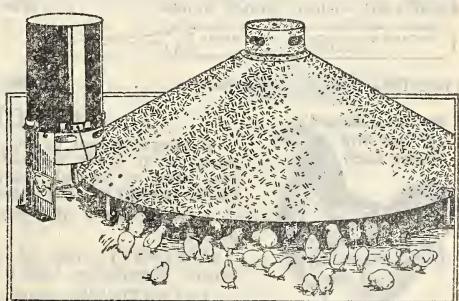
Electric "Flat Top" Brooder

## NESCO BROODERS

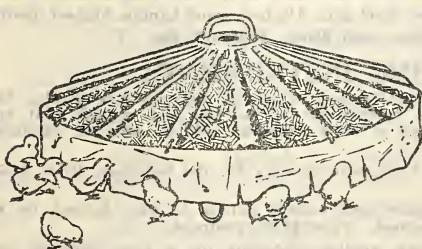
The burner, which stands in the center of the canopy and 12 inches above the floor, supplies clean, constant heat which is spread evenly all around. Any gas or smell from the burner escapes directly to the ventilator.

These heaters are safe, simple, economical and easy to operate. A reliable oil brooder stove at a very low cost at following prices:

42-inch canopy.....	400 chicks.....	\$14.65
52-inch canopy.....	600 chicks.....	16.00



Nesco Brooder



Ideal Electric Brooder

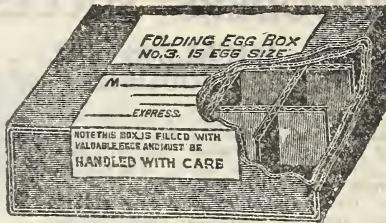
**A COMPLETE CATALOG ON REQUEST.**—Limited space in this catalog will not permit us to give a detailed description and full illustrations, but we will gladly mail leaflets or catalogs that give further information that will convince you of the superiority of these practical Incubators and Brooders.

## UP-TO-DATE EGG CARRIERS

These are double strength and cushion frame on all sides. Note the illustrations carefully. Safe and reliable for the mailing or expressing of "fancy eggs" for hatching.

Size	Doz. Wgt.	Each	Doz.
15 egg	12 lbs.	25c	\$2.75
30 egg	20 lbs.	40c	4.50
2 dozen	18 lbs.	35c	4.00
8 dozen	28 lbs.	50c	5.50
4 dozen	35 lbs.	60c	6.50

Add postage if wanted by mail



15-Egg Size. Open Corner Showing Egg Cells

## PERFECTION BABY CHICK BOXES

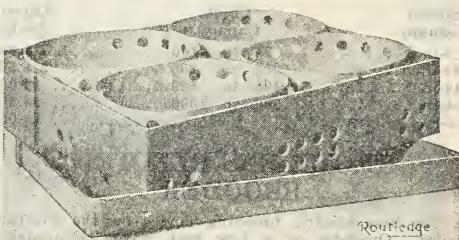
These insure the safe arrival of your chicks

New model—latest and best. No corners to crowd into, even temperature, perfect ventilation without direct draft on chicks. Extra strong, well made, best grade of corrugated cardboard. Shipped in the flat, but quickly set up by anyone. Order early and be sure of stock. Prices include staple fasteners.

Size	Weight, Empty	Each	Doz.
25 chick	P. P. 1 1/4 lbs.	25c	\$2.25
50 Chick	P. P. 2 1/4 lbs.	30c	3.00
100 Chick	Wgt. 3 lbs.	40c	4.00

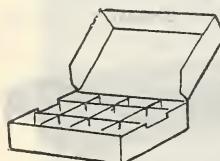
Low price per 100

NOTE.—Add ample postage if wanted by parcel post. 100 SIZE TOO LARGE TO MAIL.



New Perfection 100-Chick Box

Routledge

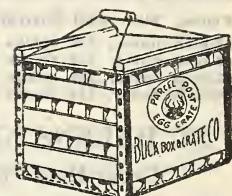


The Ideal  
12 Egg Packer

## IDEAL EGG BOX

Every poultry keeper who sells eggs should use these folding cardboard egg boxes to deliver eggs in. They are folded flat, but the corners are locked, all ready to open up and drop the eggs in. No errors in counting, as each holds just one dozen.

Price—Per doz. 20c (P. P. 1 1/4 lbs.); 100 for \$1.00 (P. P. 11 lbs.); 1,000, \$8.00.

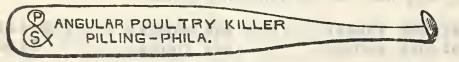


Buck 12 Dozen  
Egg Crate

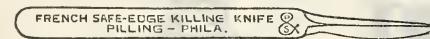
## BUCK 12-DOZEN EGG CRATE

Made of wood, cardboard fillers. Very light, but strong; metal corners; holds 12 dozen eggs; lock wire bale, wooden handle. (P. P. weight 5 1/2 lbs., set up.) 12-Doz Size, Each 75c.

## POULTRY KILLING KNIVES



ANGULAR.—Nickel plated handle.....50c



FRENCH.—Nickel plated handle.....50c



RUSSELL.—This is a very popular style. Full size, good grip, 4 1/2-inch wood handle, highest quality 8-inch steel blade. Postpaid, 60c.



The Same Amount  
Of Feed Will  
Raise Each

Poultrymen can double their profits by Caponizing the young cockerels. The operation is easily learned. The instructions are so full and explicit that any one, after a careful reading and a little practice, will be able to caponize. FREE BOOKLET ON REQUEST.

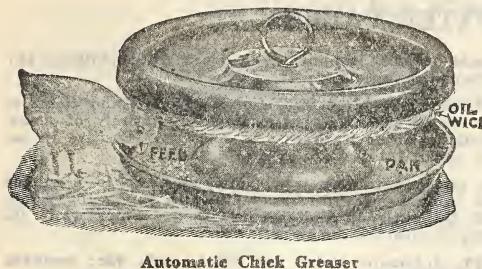
LANDSDOWN SET NO. 1.—Very popular, easy for the beginner. Price \$8.50, postpaid.

SIMPLICITY.—One of the safest and easiest outfits to use, devised by an expert. Descriptive leaflet on request. Price \$4.25, postpaid.

VALENTINE'S.—Made of high quality materials for a local breeder, who claims it is the most practical set yet offered. Illustrated leaflet on request. Price \$3.50, postpaid.

JERSEY.—One of the new sets. Highly recommended. Price \$4.00, postpaid.

PHILADELPHIA is O. K. and has many admirers. Price, cardboard box, \$2.50; wooden box, \$2.75 postpaid.



Automatic Chick Greaser

## AUTOMATIC CHICK GREASER

(See Illustration.). Let every chick rid itself of head-lice. The large lice that collect on the heads of young chicks cause them to droop and die. Save time and chicks by using an Automatic Chick Greaser. Saturate the wick with Conkey's Head Lice Ointment or a mixture of two-thirds lard and one-third kerosene, then put feed in the pan and every chick will get its head thoroughly greased in a very few minutes.

Can be moved from one pen to another.

Price \$1.25, or \$1.35 postpaid. Head-Lice Ointment, 10c and 25c tube, postpaid.

## PORTABLE ELECTRIC EGG TESTER

If you have electric service this is the only egg tester to use. The searchlight effect on the air cell illuminates the entire contents. Weak or dead germs, blood spots, cracked shells and clear, unfertilized eggs are instantly detected after the third or fourth day of incubation.

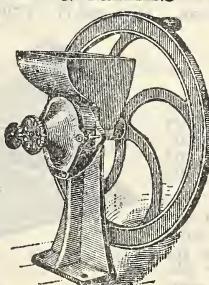
Absolutely guaranteed and used successfully by the largest California hatcheries. Price \$5.00, postpaid. DESCRIPTIVE LEAFLET ON REQUEST.



## STOVER GRINDING MILLS

In these mills are embodied all the good features of other hand grinding mills to which have been added universal burrs, or grinding plates, that are quickly adjusted, and locked for grinding coarse or fine. These mills will grind any kind of grain or seeds, dry bone, oyster or sea shells, crockery, etc. CIRCULAR ON REQUEST.

No. 32.—Has a 16-inch flywheel and is light running; the capacity is not equaled by any other of the same size. Weight 40 lbs. Price \$7.00.



Stover Grinding Mill

## UP-TO-DATE SHIPPING COOPS

These coops are light, but strong. The ends have the cleats nailed on. We ship in the flat to save charges, but it's an easy matter to nail them together, for each part is marked.

	Width	Length	Height	Each	Doz.
No. 2	10 1/2 in.	18 in.	24 in.	60c	\$ 6.60
No. 4	10 1/2 in.	24 in.	24 in.	75c	7.50
No. 6	19 1/2 in.	24 in.	24 in.	95c	9.50

For Parcel Post—No. 2 weight 10 lbs.; No. 4, 12 lbs.; No. 6, 18 lbs.

Capacity—No. 2 suitable for single birds or pair Mediterraneans. No. 4 for Asiatic male, American or Mediterranean pair or small trio. No. 6 for a pen of five birds any variety.

## LIME AND GLASS EGGS



OPAL GLASS NEST EGGS.—Best grade heavy glass, correct shape. 3 for 10c; doz. 40c, postpaid; per gross \$3.50.

LIME NEST EGG.—Preferred by many; non-breakable. More natural.

Each, 3 for 10c; 12 for 40c, postpaid; per gross \$3.75.

Medicated or Lice Repelant.—Sale discontinued; government agents condemn them.

## EGG PRESERVERS

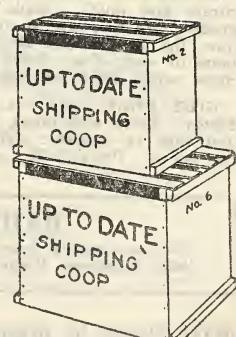
Water-Glass (Liquid).—This is the old, well-known egg preserver in liquid form. Use the solution to cover the eggs. (Cannot be mailed).

Prices: Qts., 40c; 2 qts., 70c; gal., \$1.15; 5 gals., \$4.50.

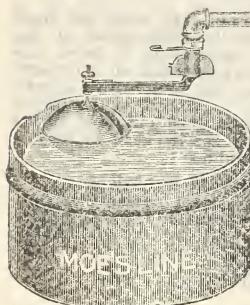
Ahlers' Egg Preservers.—Powder form. See page 128.

## AHLER'S EGG CONTAINER

A strong, well made galvanized can with a brass basket to hold the eggs. Take off the lid, lift up the basket, and pick out the eggs; no fishing around in the liquid. Capacity 30 to 85 doz. Price, \$2.50.



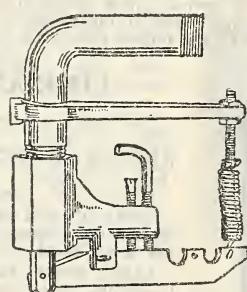
## AUTOMATIC WATER VALVES



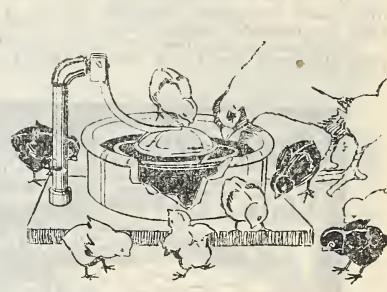
Moe's Automatic



Reliable



Guaranteed



Hawe's

**RELIABLE AUTOMATIC FLOAT WATER VALVE** is the last word in a perfect operating water fountain. Made entirely of brass and copper, rust proof, will wear indefinitely. Easily installed, requires no adjustments and will work under any water pressure. Lift it up to remove pan or trough and it cuts the water off. Capacity, 1

quart per minute. The needle valve in the elbow is easily removed for cleaning or replacement. It's a tire valve incased in brass. It's O. K. Price \$1.00, postpaid \$1.15.

**HAWE'S AUTOMATIC WATER VALVE**—All brass, simple in construction and perfect in operation. (See cut.). Price \$1.00, postpaid \$1.15.

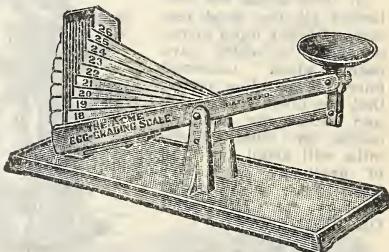
## EGG GRADING SCALES

**ACME NO. 2**—Especially adapted to Pacific Coast trade. Grades all weight from 18 to 26 oz, without any changing or adjusting. Made entirely of aluminum, rust-proof and practically indestructible. Every part is accurately made and carefully tested and will meet the requirements of any state bureau of weights and measures.

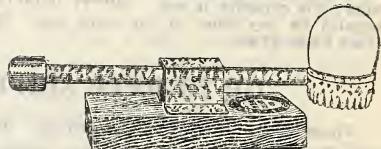
The operation of this scale is so simple that a child can operate it. By placing an egg in the cup the beam will automatically adjust itself. The lowest visible number on the blades will indicate the weight in ounces of one dozen like eggs. Hence this egg should be placed in a carton, or case, which is properly marked for that particular grade of eggs. Price \$3.00, postpaid \$3.15.

**STANDARD**—Very simple in construction, yet very accurate and quick. Made in two sizes, 19 and 22-ounce grades. As they are so inexpensive and it is so handy to have the two graders all set, everyone should have one or more of each size. Price 60¢ each; 2 for \$1.10, postpaid. State which grade or size is wanted. See illustration.

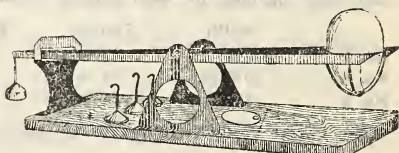
**GILT EDGE** (See cut.)—Used throughout the United States. Extra well made, yet simple in construction; quick and easy to operate; weighing capacity, 18 to 29 ounces per dozen. Price \$1.25, postpaid \$1.35.



Acme Egg Scales



Standard Egg Scale



Gilt Edge Egg Scales

## BABY CHICKS

We can supply baby chicks in season, from reliable breeders. Write for prices.

Make Money by preserving eggs when they are cheap and selling when they are high in price. See "Ahler's," page 123.

## Leg Bands for Poultry and Pigeons

CHAMPION



ADJUSTABLE

This band (see illustration above) is made in one piece and adjustable to fit any fowl. They will stay where you put them. Held by double lock,

Made of aluminum with raised figures. Not made for baby chicks or pigeons. After fitting, clip surplus end off with shears.

This is our most popular numbered band. Put up in packages numbered 1 to 12, 13 to 25, 26 to 50, 50 to 100, and boxes 100 to 200, 201 to 300, and in even hundreds up to 1,000.

NOTE.—We do not break above packages.

PRICES: 12 for 20c; 25 for 25c; 50 for 40c; 100 for 65c; 500 up at 60c per 100.

## SPIROL—COLORED LEG BANDS

You have no ends to fasten together—made on the same principle as a key ring. Once put on they stay till taken off and do not chafe the leg.

Durable, Practical, Economical. They provide instant identification without handling the birds. You can identify birds as far as you can distinguish colors, which will show you according to your markings the early or late hatched pullets, the yearlings or two-year-olds, your different matings, and so on. Fine for baby chicks. Made in ten colors: Red, White, Pink, Yellow, Light and Dark Blue, Black, Purple, Green and Garnet. They do not fade and are weather-proof. We offer Highest Quality only.

### ORDER BY NUMBER. AND STATE COLOR WANTED

NOTE.—No. 1, Baby Chicks; No. 2, Pigeons; No. 2½, Bantams or growing chicks; No. 3, Leghorns, all Mediterraneans and Spanish; No. 4, Rocks, R. I. Reds and American classes; No. 5, Asiatic classes and Ducks; No. 6, Asiatic Males, Turkeys and Geese.

PRICES postpaid: Any color Nos. 2, 2½, 3 or 4—12 for 20c, 25 for 25c, 50 for 40c; 100, 60c; 500 at 50c per 100. NO. 5 and NO. 6 SIZES are 12 for 20c, 25 for 30c, 50 for 45c, 100 for 70c.

BABY CHICKS.—12 for 15c, 50 for 30c, 100 for 45c, 500 up at 85c per 100; postpaid.

### SPIRAL



## ECONOMY—COLORED LEG BANDS FOR POULTRY

Handsome, two colored,  $\frac{1}{2}$  inch wide, aluminum back, celluloid face, well made and durable. Large, plain, double numbers from 1 to 300 in red, green, pink, blue and black. Fasteners very secure if doubled back and pressed tight. We can supply these only in Leghorn and Rock sizes. (See cut above).

Prices: 6 pair (12 bands) 30c; 25 pair 75c; 50 for \$1.00; 100 for \$1.75, postpaid.

## ECONOMY—COLORED PIGEON BANDS

Same width and style as above, with double numbers up to 100 only, as the band is not long enough to go above 100; single numbers from 1 to 100. Same colors as for poultry.

Prices: 6 pair (12 bands) 30c; 25 pair 75c; 50 pair \$1.40.

## SURE CLINCH ADJUSTABLE POULTRY BANDS

This new aluminum band is very neat, smooth and well made,  $\frac{3}{8}$  inch wide, adjustable to 3 sizes. Note the 3 holes in illustration. We offer this band as superior to the old-style double clinch. Numbers from 1 to 1,000. (See cut).

Prices: 12 for 20c; 25 for 25c; 50 for 60c; 100 for 85c; 500 up at 75c per 100.

No. 8—Economy

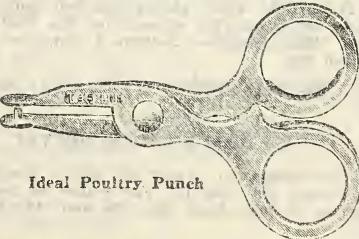
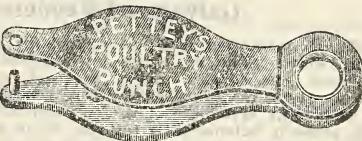
No. 7—Sure Clinch



## ADJUSTABLE WING BANDS

For Chicks or Pigeons

$\frac{1}{4}$ -inch wide, numbered, the same prices as "Champion" Poultry Band above.



Ideal Poultry Punch

Used for marking the web between the toes of baby chicks.

Pettry's Poultry Punch.—Postpaid 25c.

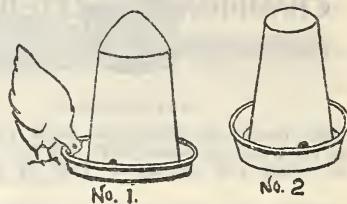
Ideal.—See illustration; good size, well made; does neat work. Each 50c, postpaid.

## Up-to-Date Sanitary Drinking Fountains and Feeders

Increase your profits by saving the chicks. Start now by ordering sanitary, economical, up-to-date Fountains and Feeders. Note.—When wanted by parcel post, add postage.

### Standard Fountains No. 1, No. 2

Made in two parts, pressed out of heavy galvanized iron; will last for years. Easy to clean inside and out. (See cut.). Price, 1-qt., 30c; 2-qt., 45c; 4-qt., 65c. (Add postage at 2 lbs. each if wanted by mail.).

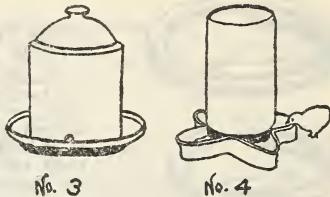


No. 2

### Sanitary Stone Fountain No. 3

An old and popular style that keeps the water cool; see cut. (Not mailable.) Price, 1-qt., 50c; 2-qt., 75c; 4-qt., 90c; 8-qt., \$1.50. (Cannot send parcel post).

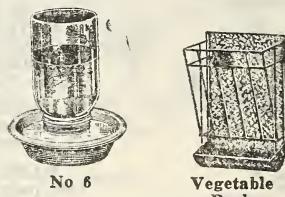
Store price, not packed, quart 45c, 2-quart 65c; 4-quart 75c; 2-gallon \$1.25.



No. 4

### New Star Chick Server

Now made of bright tinplate so buttermilk as well as water can be used in it. Pint, quart or 2-quart Mason jar fits it. Price (without jar) . 10c each, or 15c each, \$1.35 doz., postpaid.

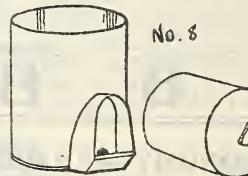


No. 6

Vegetable Rack

### Perfect Chick Server No. 6

Improved style. Enamel pan with high collar to fit any Mason jar. You fill the jar with water, buttermilk, grain or mash; screw on the pan and turn it over. Will not corrode or rust, and safe for medicines and buttermilk. Each 15c; doz. \$1.50, postpaid.

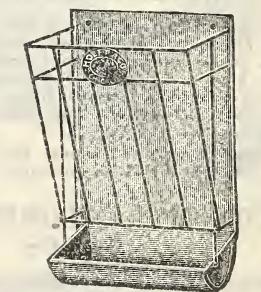


No. 6

### Champion Telescope Fountains

This is the best and most popular style. The full length telescope top pulls out, making it easy to clean inside. Set up on platform out of litter.

NO. 8 CHAMPION.— $\frac{1}{2}$  gal., \$1.00 (P. P. wgt.  $2\frac{1}{2}$  lbs.); 1 gal., \$1.25, wgt.  $3\frac{1}{2}$  lbs.; 2 gal., \$1.60, wgt. 5 lbs.; 3 gal. with 3 cups, \$2.50, wgt. 10 lbs. (Wgts. include packing for P. P.)



### Galvanized Feeders

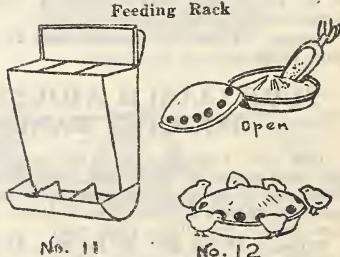
Made of galvanized iron; soon pay for themselves in preventing waste. Sanitary, closed top self-feeders for granulated bone, beef scraps, grit, shells, charcoal, dry mash, etc. If these necessary foods are kept before your fowls they will eat just what their systems require for profitable results; in other words, properly balance their rations. Hang up out of the litter.

NO. 11 MOE'S.—Extra strong and well made; the feed trough at bottom is round. No corners for the feed to lodge in and get sour. Moe's No. 9—3 Section, 3 pints each. (P. P. wgt. 4 lbs.) Each 90c.

MOE'S No. 90—4 Sections (P. P. wgt. 5 lbs.) Each \$1.25.

### Moe's Chick Server

NO. 12.—(See cut.) Practical and a great saver of feed. Chicks cannot get into it. For water or feed. 8-hole, Each 15c; Large, 12-hole, Each 25c. By mail 10c extra or 40c doz.

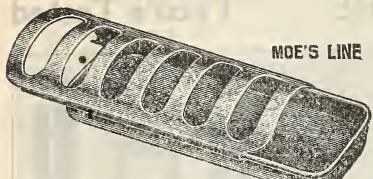


Feeding Rack

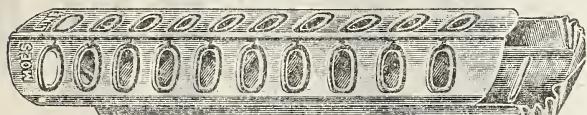
No. 12

### Vegetable Rack and Feeder

For feeding poultry greens, cabbages, etc. Also a fine rabbit feeder. Put the hay or greens behind the wire rack and grain in the trough below. See cut. 9x13 inches. (P. P. wgt.  $2\frac{1}{2}$  lbs.) List price 90c our special price only 75c.



Sanitary Food Trough No. 21.



Small Chick Feeders

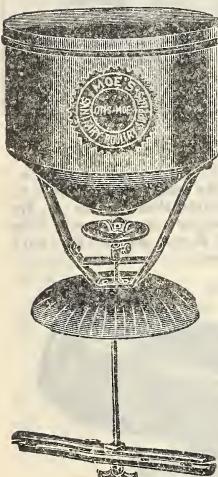
## SANITARY FOOD TROUGHS

For Poultry and Ducks of All Sizes.—Saves 15 to 25 per cent in foodstuff. Made of heavy galvanized iron; no sharp or rough edges to injure the birds; patent top, slides off. Safe, sanitary, saving and serviceable. (See cut.)

No. 21.—12-in. (P. P. wgt. 1½ lbs.)	40c
No. 22.—18-in. (P. P. wgt. 2 lbs.)	60c
No. 23.—24-in. (P. P. wgt. 2½ lbs.)	70c



Adjustable Fountain No. 139



Feeder No. 53

## SMALL CHICK FEEDERS

Well made, sanitary feeders for feed, water or buttermilk. Made of heavy tinplate, sliding top easy to clean. No seams, rivets or solder.

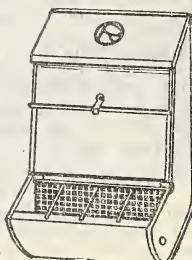
No. 137.—10 inches long, 10 holes; each 35c.  
45c postpaid. No. 138.—20 inches long, 20  
holes; each 50c, or 60c postpaid.

## ADJUSTABLE FOUNTAIN

Magazine feeder and fountain, adjustable up and down to feed slowly or rapidly chick feed, mash or buttermilk. Heavy tinplate. Capacity about 2 qts., 12 feeder holes. No. 139—price 95c, or \$1.10 postpaid.

## MOE'S FEEDER AND EXERCISER

The best combined feeder and exerciser. Cannot clog. Swinging deflector scatters the grain all around, a little at a time. Hang up in scratching shed.  
No. 53. Holds ½ bu.; 28 inches high; (weight 9 pounds)  
Each \$2.00.

No. 36  
Dry Mash Hopper

## DRY MASH HOPPER

A hopper of the greatest merit. Made of heavy galvanized iron. Birds can't waste the feed and it's "rat proof" when closed.

Size	Width	P. P. Wgt.	Capacity	Each
No. 35	8½ in.	6 lbs.	10 qts.	\$1.65
No. 36	12 in.	7½ lbs.	18 qts.	\$2.40
No. 37	24 in.	12 lbs.	36 qts.	\$3.10

## AHLER'S INVISIBLE EGG SAVER

The Egg Saver is a boon to the egg producer, as well as to the housewife, who might want to put some eggs away, while they are cheap.

A strong point is that the quality of the eggs remains perfect. Eggs treated by the Egg-Saver system will boil or poach and the white will whip the same as a fresh-laid egg. Experts cannot tell them from fresh eggs.

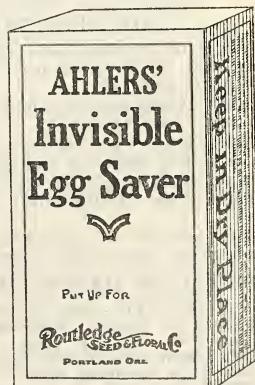
Six to seven gallons of water and 1½ pounds of powder will treat 30 to 35 dozen eggs. As you gather the eggs, drop them into the solution. If you market them, let them dry without wiping, so as not to break the seal of the pores.

It is immaterial whether the eggs have been in the solution one day or one month. They will come out all alike and you will have perfect eggs in every respect.

Egg dealers, large or small, cannot afford to be without Invisible Egg Saver.

Full directions are given on each package.

Prices: ½-lb. pkg., 50c; 1½-lb., \$1.00; postage extra. Write for bulk price if interested.



## High Grade

## THERMOMETERS

## Tyco's Tested

## FOR POULTRYMEN—

Without a reliable, accurate thermometer an incubator is practically worthless. Hundreds of hatches fail every year because of inferior thermometers and large numbers of brooder chicks are destroyed for the same reason.

## FOR HOT BEDS

## FOR FLORISTS

## FOR HOUSEHOLD

## FOR DAIRIES

We carry in stock quite a nice assortment for all purposes. We illustrate and price the most popular kinds.

We sell the "Tyco's" tested, recognized as the most dependable.

## INCUBATOR THERMOMETERS

**TYCO'S CERTIFIED.**—Same style as No. 22. Scale is etched on glass tube as well as metal back. "Certified correct," worth the price. Each \$1.25 postpaid.

**NO. 22 "TYCO'S."**—Very popular. Can be suspended on a wire on level with eggs or set on the metal. Price \$1.00, postpaid.

**NO. 23 "TYCO'S."**—Has folding legs, adjustable; to be set up in egg tray. Postpaid 95c.

St. Helens Style. .... \$1.00

## BROODER THERMOMETERS

**NO. B29.**—Tyco's high-grade, white figures on black metal scaled from 60 to 130 above; temperature readable above the hover. Postpaid \$1.00.

**NO. 30.**—Long, round wood holder. Used in International Sanitary hovers, also brooder houses. Postpaid, each, \$1.00.

**NO. 28 (see cut).**—To hang under the large hovers or for poultry houses; high grade, desirable style; scaled. 85c postpaid.

St. Helens Brooder Thermometer ..... \$1.00

## FOR GENERAL USES

All under this class are spirit thermometers and have red liquid which make them easy to read. All prices postpaid.

**H-3.**—Polished copper, nicely finished, 8-inch plain figures. Each \$1.25.

**H-4.**—Wood back, red, 8½ inches; long, plain figures; full scale and high grade. Price \$1.75.

**H-6.**—Black enamel finish, full scale, easily read, highest grade. 8-inch \$1.25; 12-inch \$2.35; 6-inch 75c.

**H-1.**—15-inch soil or hot bed thermometer, correctly made, brass point. Price \$3.00.

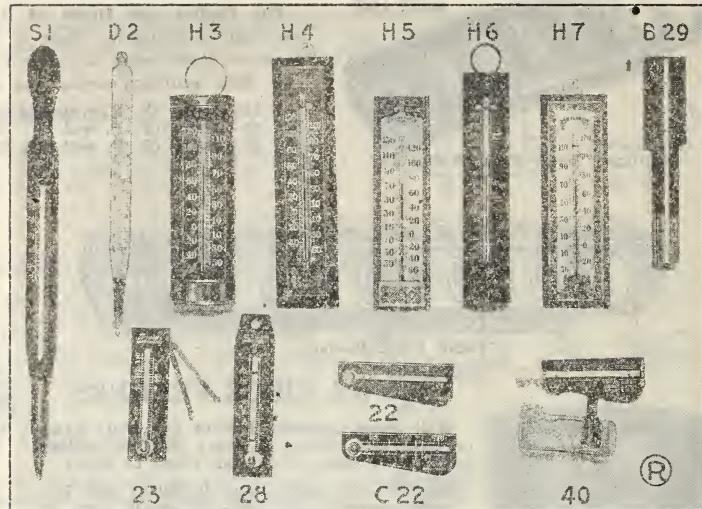
## FLOATING DAIRY THERMOMETERS

**D-2.**—No. 5715.—9-inch glass tube, large figures scaled to 210 degrees. Price 50c, postpaid 60c.

**No. 5701.**—10-inch large tube, plain figures scaled from 10 to 230 above. Highest grade. Price \$1.50, postpaid \$1.60.

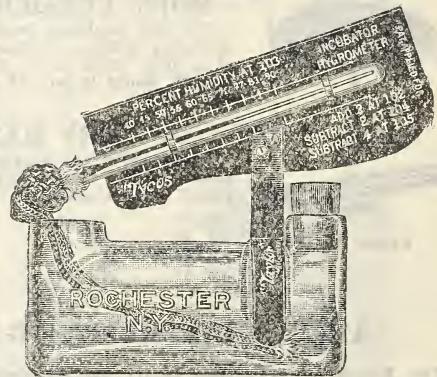
**TYCO'S GLASS.**—Scaled from 20 to 220 degrees. Price \$1.25, postpaid \$1.35.

**QUEEN REPAIRS OR EXTRAS.**—We have an illustrated and descriptive booklet giving price list of repair parts and fixtures for all models, old and new. Free on request.



## INCUBATOR HYGROMETERS

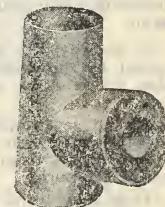
**NO. 40** (see cut below).—"Moisture Indicator." Millions of chicks die in the shell every year for want of proper moisture conditions. Use a Hygrometer to show you proper conditions. Price with full directions, \$1.75. Extra wicks, 15c each. Descriptive booklet on request.



"Tyco" Hygrometer

## X-RAY EGG TESTER

Used to test fertility of eggs and show size of air cell during incubation. Use on an ordinary lamp (No. 2 burner), in a dark room. Price, postpaid, 75c.



## LAMPS, BURNERS, ETC.

Queen Lamp, 6x4 inches, complete. For No. 1, 2, 3, 4 or 5.....	\$2.50
State size of burner or wick wanted.	
Queen Lamp Burners (state size).....	1.00
Queen Lamp Flue (chimney).....	.50
Queen Water Regulator.....	1.25
Lamp Wicks (state size), each 5c; doz.....	.50

## PROGRESSIVE OAT SPROUTER

No other green feed takes the place of the wonderful quickening virtue of the young, growing oat sprouts.

The State Experiment Stations and the national egg laying contests all feed Sprouted Oats.

If you want lots of eggs in winter when the price is high and in summer when the grass is dry, feed Sprouted Oats.

The entire sprouter, with exception of frame work, is made of heavy galvanized steel.

In operation the dry oats are placed in the soaking tank at the top and then covered with water. The next morning the tank is drawn forward about four inches and inverted, dropping the soaked oats into the first top section, and soaking tank refilled. The next morning the sliding metal bottom of the top section is drawn forward and the oats drop into the second section. Metal bottom replaced and soaking tank again emptied into top section. This operation is continued daily, the sprouted grain being removed each morning from the drawer at the bottom and new supply added to soaking tank.

Portland prices, with full instructions: No. 9, for 100 hens, \$9.00; No. 1, for 500 hens, \$21.00; No. 2-Double, for 1500 hens, \$47.50.



Trengove's NON-PIKK will if used in time, prevent toe-picking, rump-picking, feather-pulling—cannibalism. It is as effective on old birds as it is on young. Just treat the birds and return them to their pens—one taste and they never forget. It is repulsive to the taste, but not injurious.

### DIRECTIONS FOR RESULTS

At the first sign of toe-picking, etc., apply a small amount of NON-PIKK on the wings and tails of several birds in each pen. It is not necessary to confine treatment strictly to picked birds. However, if any are serious, apply NON-PIKK as a healing agent.

In severe cases of feather-picking in old birds, a flock treatment is advised, allowing one pound of Trengove's NON-PIKK to about each 100 birds.

PRICES:  $\frac{1}{4}$  lb. tin, (500 chick size), 75¢;  $\frac{1}{2}$  lb. tin (1000 chick size), \$1.00; 1 lb. tin (2000 chick size), \$1.50. Add postage if wanted by mail.

### NEW MODEL CLOVER CUTTER

Cuts perfectly  $\frac{1}{2}$ -inch lengths, dry or green hay or feed. Cutter bar is adjustable and easily accessible. The four 7-inch spiral steel knives can readily be removed for sharpening.

Length 28½ inches. Weight 70 pounds. Price \$18.00.

## CHLORINE

The greatest specific and conditioner for poultry. Fowls fed Chlorine will keep healthier and produce more eggs during the season. The mortality will be much less and they will go through the moulting season in far better condition.

For Baby Chicks.—A preventative and specific for white diarrhea, coccidiosis (bloody diarrhea), cholera, roup, limber neck and other germ diseases, intestinal troubles, indigestion, and worms. Use it from the start as a preventative. It will pay big returns. They will brood better and have more "pep" and grow into more profitable birds.



For Laying or Breeding Fowls.—Use six tablespoonfuls Chlorine to one hundred birds, a pint to five hundred birds, three days a week. Many of the largest poultrymen on the Coast and throughout the United States are continuous feeders of Chlorine. It will aid fowls to obtain full nutriment of food consumed.

PRICES.—6-oz. bottle, 40¢; postpaid, 45¢; 16-oz. bottle, 70¢; postpaid, 80¢; 1 gal., \$2.50; 5 gal. \$11.25; 30-gal. bbl. \$45.00. Full directions on each container. Barrels—Prices on request.

## WORM REMEDY

### H. Q. RED CAPSULE

#### A NEW, IMPROVED TREATMENT

An individual treatment that promptly expels intestinal worms in chickens without any bad after effect.

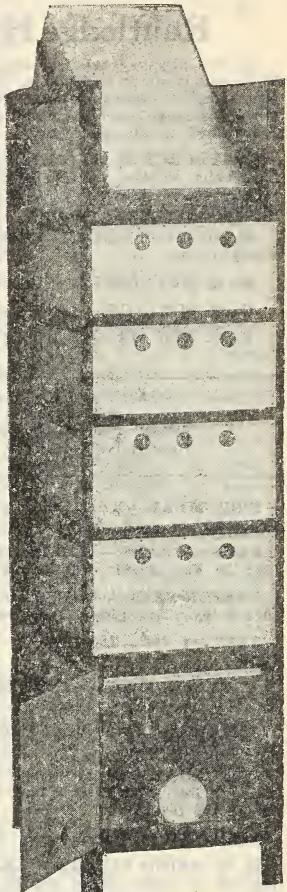
Place one capsule well down the bird's throat and the intestinal worms will be expelled within 48 hours.

Always feed normally before dosing; that is, do not fast the birds before treatment.

Every bird gets an exact dose which is so regulated that there is no bad effect on growth, or egg production.

Descriptive leaflet on request.

Price of Capsules.—12 for 25¢; 50 for 75¢; 100 for \$1.00; 250 to 500 @ 90¢ per 100; 1000 for \$8.50, postpaid. Full directions with each pkg.



## Routledge H. Q. Poultry Feed

It has always been our aim to supply the poultry-keeper the best feeds and supplies obtainable. Our line of Poultry Feeds that we offer you after 20 years of experience will please the most critical and prove the most economical and profitable to feed. Quality and analysis guaranteed on all our feeds.

**ROUTLEDGE H. Q. CHICK SCRATCH.**—It is vitally important to feed baby chicks; we use only the purest of grains. Should be fed several times daily in addition to our Buttermilk Chick Mash, after 48 hours to 8 weeks of age.

**H. Q. BUTTERMILK CHICK MASH.**—Feed from 10 days to 12 weeks of age.

**H. Q. DEVELOPING SCRATCH.**—8 weeks to 4 months.

**H. Q. SCRATCH.**—After 4 months of age.

**H. Q. EGG MASH.**—After 6 months of age.

**PRICES.**—We put up daily 25c and 50c pkgs. of above feeds at only a small advance over 100-lb. prices. Write or phone for latest 100-lb. prices. Descriptive leaflet on request.

**FISH MEAL.**—5 lbs., 35c; 10 lbs., 65c; 50 lbs., \$2.25; 100-lb. sack, \$4.85.

**BEEF SCRAPS.**—Lb., 10c; 5 lbs., 45c; 10 lbs., 75c; 50 lbs., \$2.60; 100 lbs., \$5.00.

**OYSTER SHELL, CRUSHED.**—EASTERN: 3 lbs., 10c; 8 lbs., 25c; 100-lb. sack, \$1.75.

**GRIT.**—4 lbs., 10c; 12 lbs., 25c; 100-lb. sack, \$1.40.

**ALFALFA MEAL.**—1 lb., 10c; 5 lbs., 25c; 100 lbs., \$1.75.

**ALFALFA LEAVES AND BLOSSOMS.**—10 lbs., 60c; 100 lbs., \$1.75.

**CHARCOAL.**—A for mash, B for chicks, C for hens. 1 lbs., 10c; 3 lbs., 25c; 10 lbs., 75c; 50 lbs., \$2.00; 100 lbs., \$3.70.

**POULTRY PEPPER.**—1 lb., 30c; 5 lbs., \$1.35.

**H. Q. DRIED BUTTERMILK.**—Mix 5 to 7 lbs. to 100 lbs. of mash. Price per lb., 15c; 10 lbs., \$1.25; 20 to 50 lbs., at 12c; 100 lbs., \$10.50.

**EPSOM SALTS.**—1 lb., 15c; 5 lbs., 60c; 10 lbs., \$1.00.

### LICE POWDER—Best By Test

**Prices.**—30c and 60c pkg. Add 10c extra if wanted by mail.

### “H. Q.” PINE OIL

**PINE-OIL** has many uses, but the chief one for the poultryman is in connection with colds, roup, canker, chicken pox, etc. We recommend it highly. Full directions on label.

**Prices.**—6 oz. 35c; 16 oz. 60c; Qt. 85c; Gal. \$2.00.

### “H. Q.” LICE AND MITE LIQUID

**KILLS BY CONTACT.**—We recommend this liquid for use in poultry houses, barns, stables, coops, etc., as a killer and preventive. Spray walls, crevices and corners where they hide and breed.

**FOR LICE AND MITES** paint the roosts and spray thoroughly the drop boards and walls to kill the mites and eggs. It penetrates and lasts. Used occasionally and thoroughly it will absolutely keep the HOUSE free of mites or lice. Use Lice Powder for body lice.

**SATISFACTION GUARANTEED OR MONEY REFUNDED.**

**PRICES.**—By express or Freight (not mailable), Quart cans, 50c; 2-quart cans, 80c; gallon, \$1.20; 5-gallon, \$4.00; 10-gallon (2 5-gal. cans in case), \$7.50.



### CONKEY'S POULTRY REMEDIES

Conkey's POULTRY BOOK Free

**POSTAGE.**—The following can be mailed safely, but ADD 5c EACH FOR POSTAGE and safe packing on the 30c packages and 10c extra on the 60c to \$1.20 sizes.

Roup Remedy (powder).....	30c, 60c and \$1.20
Roup Pills, Special .....	30c, 60c and \$1.20
Canker and Bronchitis Remedy .....	60c
Blackhead Remedy .....	60c
Head Lice Ointment.....	15c and 30c
Cholera Remedy .....	30c, 60c and \$1.20
Gape Remedy .....	30c and 60c
Lice Fix (Salve Form) .....	30c and 60c
Limber Neck Remedy .....	60c
Scaly Leg Remedy .....	30c
Poultry Laxative .....	30c and 60c
Poultry Conditioner (General Tonic) .....	30c and 60c
Poultry Worm Remedy.....	30c, 60c; 5 lbs. \$2.75
Poultry Flee Salve .....	30c
Sulphur Candles .....	15c

White Diarrhoea Remedy.—Save your baby chicks by putting it in their drinking water.

Price 30c, 60c and \$1.20

### H. Q. NORWEGIAN COD LIVER OIL

Rich in Vitamines.—Per gallon, \$2.75

### OCULUM FOR POULTRY

“Oculum” is not a stimulant but is a scientific germicide. It destroys disease germs in the bowel and keeps fowls healthy.

**PRICES.**—Trial size, 1 oz. (240 feeds), 15c; 50c bottles 60c postpaid; \$1.00 bottles, \$1.10 postpaid; \$2.00 pints; postpaid, \$2.25. Extra Glass Syringes, 15c.



Red Mite,  
greatly enlarged.  
Natural size  
almost  
invisible  
to the eye.

## SONG AND CAGE BIRDS

We are the largest importers and dealers in Birds and Gold Fish in the Northwest. This department of our business has grown rapidly and we have incorporated the Routledge Bird, Pet and Animal Company with headquarters at our new East Side Store, Grand Avenue and Stark.



### IMPORTED AND AMERICAN CANARIES

Their cheery song is like sunshine to the soul; their bright plumage, active ways and cheerful dispositions make them great favorites. For your convenience we have enclosed with glass "Bird Parlors" on our first floor. You are welcome at any time. Come in and see our birds and hear them sing.

**ST. ANDREASBERG.** World-renowned and the sweetest singers on earth. These birds have been given a musical training; their song is sweet and soft with many rare and pleasing notes, trills, rolls, etc. **Prices—Imported Singers, \$15; Females, \$2.50.**

NOTE—Some try to get a fancy price for American raised St. Andreasberg, but they do not have the correct song. We sell them if they have had good training as select Hartz Mountain Singers.

**HARTZ MOUNTAIN SINGERS.** Beautiful and incessant singers, always bright, active and cheerful. Some singers in this class are almost equal to the above, especially where they have had special training. **Prices—Males, \$7.50; select Singers, \$10; select Females, \$1.50; ordinary, \$1.00.**

We Guarantee Our Singers and Will Exchange if Not Satisfactory

Ore.

**Routledge Seed & Floral Co.**

Dear Sirs: We wish to thank you for the bird you sent us a short while back. He certainly has developed into a wonderful singer. All fears have been allayed since I wrote that he was not singing. We have a radio going about 18 hours a day and I guess he couldn't figure it out. He certainly has come up to all our expectations.

Yours very truly,

MRS. F. H. STORY.

### BIRD BOOKS

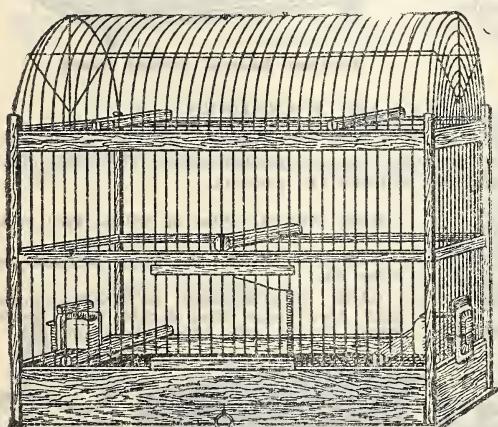
**"CARE, FEEDING and BREEDING of CANARIES."**—A book of real information regarding Canaries. Also informs you how and what to use to overcome disease and trouble. It is based on many years of experience and study; 48 pages, nicely illustrated and well printed on heavy book paper. **WORTH A DOLLAR**, but priced at 25c; postpaid, 30c.

**FEATHERED PETS.**—140 pages on breeding, care and food for Canaries, Finches, Parrots and all cage birds. Postpaid ..... 50c

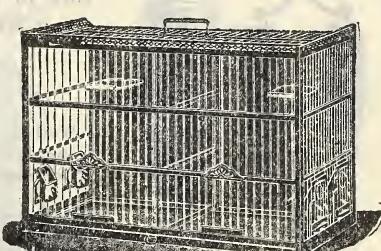
**PARROTS AND TALKING BIRDS.** ..... 50c

**AMERICAN BIRD FANCIER.** ..... 75c

**CANARIES AND OTHER CAGE BIRDS.**—New, just out, 84 pages, 5 by 7 inches, nicely illustrated, up to date. Postpaid ..... 55c



Robin Cages



BREEDING CAGES

All metal, enameled white, all complete.  
**No. 86 Single**, 17 $\frac{1}{4}$  x 8 $\frac{3}{4}$  x 14 in. high. \$5.00  
**No. 86 Double**, 19 $\frac{1}{2}$  x 10 x 14 $\frac{3}{4}$  in. high. 6.00  
**No. 87 Double**, 22 x 11 x 16 $\frac{1}{4}$  in. high. 7.00  
**No. 88 Double**, 24 $\frac{1}{2}$  x 12 $\frac{1}{2}$  x 17 in. high. 8.50

### ROBIN CAGES

While these cages are made especially for Japanese Robins, Orioles, etc., they are in less trouble than small cages, which are often overcrowded. (See illustration.)

**NO. 81**—16 x 9 $\frac{3}{4}$  x 16 in., \$5.85; **NO. 82**—17 $\frac{1}{4}$  x 10 $\frac{1}{2}$  x 18 in., \$6.65; **NO. 83**—20 $\frac{1}{4}$  x 12 x 20 in., \$7.85; **NO. 84**—22 $\frac{1}{4}$  x 13 x 21 in., \$8.85; **NO. 85**—24 x 14 $\frac{1}{4}$  x 23 in., \$9.85.

## CANARY BIRD CAGES

We believe we carry the most complete line of plain and fancy cages on this Coast. Limited space in this catalog will not permit us to illustrate all, but we offer herewith the most popular styles. If you can, call and inspect our stock. Prices subject to change.

### LA FAVORITE BRASS CAGES

This is one of the new, late models; very popular and one of our best sellers. The full, graceful design at the top adds greatly to its general appearance. Handsome, bright finish, extra well made. (Wgt. boxed, 10 to 14 lbs.) See illustration.

No.	Size, Inches	With Guard	Without Guard
7004	8 1/8 x 6 1/2 x 12 3/4	\$4.85	\$3.75
7006	10 1/8 x 7 1/8 x 13 3/4	5.85	4.50
7008	10 3/4 x 7 3/4 x 13 1/2	6.85	5.00
7010	13 x 8 1/2 x 14 1/4	7.85	5.75

### NIAGARA BRIGHT STEEL CAGES

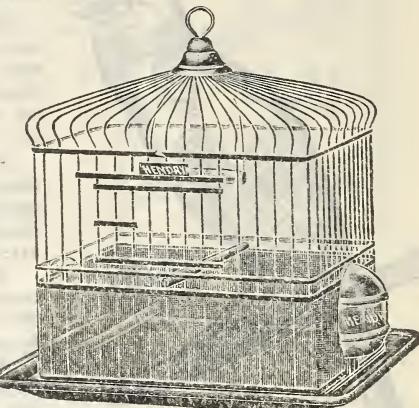
These new metal cages are finished in bright steel and look real nice. Non-corrosive, neat, bright, well made cages, same style as La Favorite. See illustrations. Mighty good value for the price. (Weight boxed, 10 to 14 lbs.)

No.	Size, Inches	With Guard	Without Guard
7104	9 1/8 x 6 1/2 x 12 3/4	\$3.50	\$2.85
7106	10 1/8 x 7 1/8 x 13 3/4	3.65	2.95
7108	10 3/4 x 7 3/4 x 13 1/2	3.90	3.15
7110	13 x 8 1/2 x 14 1/4	4.20	3.50

### ECONOMY ENAMELED CAGES

These cages are extra good value for the price. Well made and properly finished so that the enamel will not chip off. Color, pure white. For a low-priced cage, it would be impossible to find better value anywhere. (Weight boxed, 10 to 12 lbs.)

With Guard No. and Price	Inches Size	Without Guard No. and Price
	9 3/4 x 6 3/4 x 15 1/2	165.....\$2.15
266.....\$4.50	10 1/8 x 7 x 16	166.....2.90
267.....4.90	11 1/8 x 7 1/2 x 16 3/4	167.....3.15
268.....5.35	12 1/4 x 8 1/4 x 17 1/2	168.....3.35
269.....5.85	13 x 8 3/4 x 18	169.....3.85

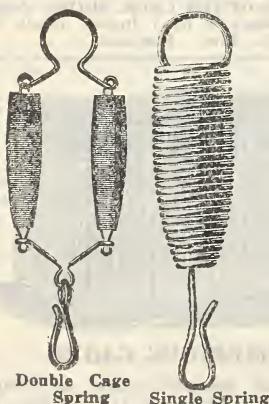


La Favorite, with Seed Guards



Economy Enamel, without Guard

Train Your  
Bird to Warble  
and Whistle



Double Cage Spring

Single Spring



Wire Nest

### CANARY WARBLERS

Warbling imitation birds, with whistling tube attached. Fill with water and blow into tube to make warbling sound. 2 1/2 inches high. Price each, metal 25c; celluloid 35c, postpaid.

BIRD NESTS.—Wire or willow 20c; postpaid 25c

NESTING HAIR.—15c Pkg., postpaid, or 2 for 25c.

CAGE SUSPENSION SPRINGS.—Single, light, 15c; heavy, 25c; double, 35c. Heavy Single Spring with adjustable chain, 35c.

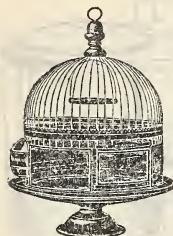


Cage Suspension Spring and Adjustable Chain

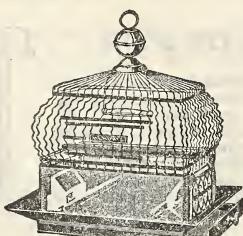
See  
Cages  
Etc.,  
Next  
Page

Note.—Bird cakes can be sent by parcel post, if necessary, at your risk, providing you add postage at weights given. AND add 25c extra. However, we advise express, charges collect.

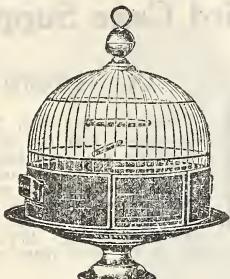
## CAGES—Continued



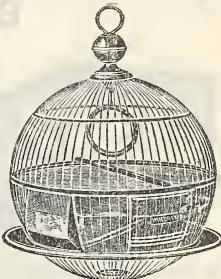
Victoria



Perfection



Imperial



New Delight

## NEW DELIGHT BRASS CAGES

This is a handsome and artistic cage. Of course it must always be hung up, but many think it is neater, trimmer and more elegant. Full brass seed and water guard.

No. Size, Inches Price  
6090-G—With guard.....12x16½ \$14.85

## VICTORIA ENAMELED CAGES

A new high class white enameled cage of latest pattern and best quality. An ideal medium priced cage. Neat in appearance, large and roomy. For stand or hanger.

No. Size, Inches Price  
6—With guard.....10x16½ \$4.00  
6½—With guard.....11x17½ 4.65  
7—With guard.....12x18 5.40

Wash., 1928.

## Routledge Seed &amp; Floral Co.

Gentlemen: Received my Hartz Mountain Canary in fine shape Thursday. He started to sing 15 minutes after I put him in his cage and he certainly is a fine singer. Thanks,

MRS. NELLIE BERRY.

## PERFECTION BRASS CAGES

A new and beautiful, fancy design, having all the good and desirable features of the new model, up-to-date cages. The graceful curved wire on the upper part makes it attractive and very pretty. New style wide moulding base with sliding cleaning pan.

No. Size, Inches Price  
440—With guard.....10½x8½x15½ \$13.85  
455—With guard.....9½x7 x14½ 10.75

## BIRD CAGE WALL BRACKET HOOKS

DANDY BRACKET.—(See cut.) Heavy nickel-plated wire, 8 in., 25c; 10 in., 35c; 12 in., 50c; Brass, 8 in., 30c; 10 in., 45c; 12 in., 55c, postpaid. 5c less if called for.

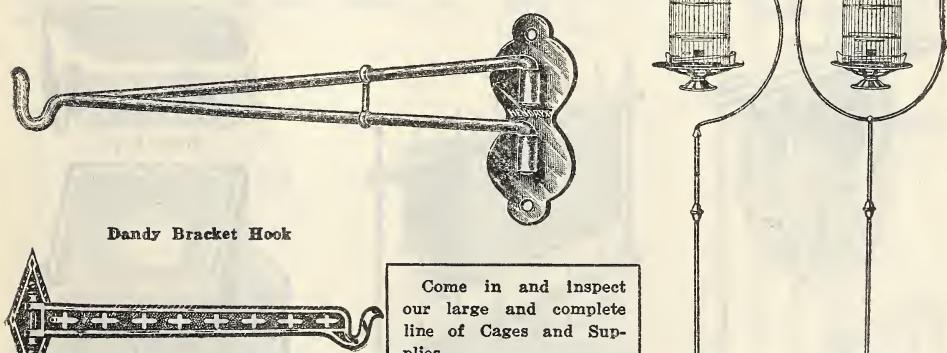
ACME BRACKET.—(See cut.) Cast, fancy design, brass plated. 12 in., \$1.00; postpaid \$1.10.

## STANDARD BIRD CAGE HOLDERS

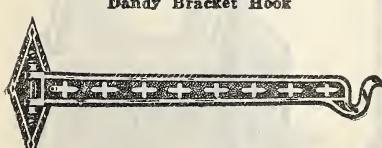
We have several styles of these cage stands, one like illustration and the other style has a full circle at the top and the cage hangs in the center. They are very convenient, and movable, can be set any place. Heavy turned base and rods. Height, 5½ feet.

HALF CIRCLE.—(Like illus.) No. 29A, polished brass..\$4.00

FULL CIRCLE.—No. 30, polished brass.....\$5.00

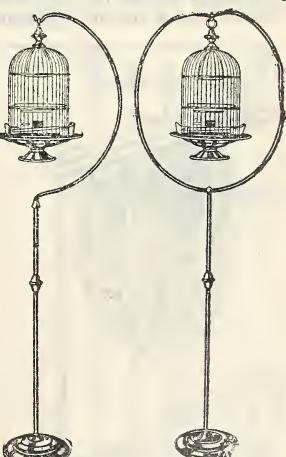


Dandy Bracket Hook



Acme (E-12) Bracket Hook

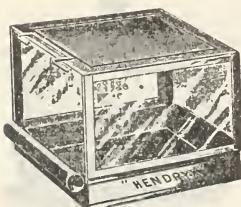
Come in and inspect  
our large and complete  
line of Cages and Sup-  
plies



Standard Bird Cage Holders

LIVING PRESENTS.—Did you ever stop and consider what a desirable Christmas or birthday present a beautiful CANARY makes? They are so different, interesting and desirable, SO CHEERFUL AND LOVABLE.

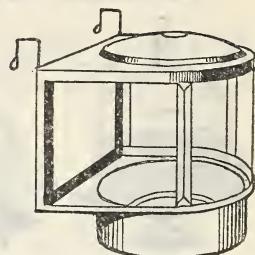
## Bird Cage Supplies—Continued



Hendryx Glass Bath House

### GLASS BIRD BATH ROOM

Ideal in every way. To prepare the bath, fill the bottom half full of warm water, open the cage door and hook bath house before it. "His Faigesty" can go in and take his bath when he pleases and you lose no time standing around awaiting his pleasure. With this closed bath room the bird cannot scatter the water in or outside the cage. It's a great convenience and the birds soon learn its use and enjoy it.



Delta Bath House

**DELTA—NEW STYLE**—Fits round or square cages. Strongly constructed, visible celluloid shield makes it light in weight. (See cut). Price, brass \$1.25; White, Red or Green Enamel \$1.00 each. For packing and postage send 25c extra.

**HENDRYX**—(See cut). Removable glass sides and glass top. Easily cleaned. Finished in white, red or green enamel. Price \$1.00. \$1.25 by parcel post.

### CUTTLE BONE HOLDERS

Inexpensive, but a great convenience. The brass wire frame holds the cuttle bone so firmly that the bird cannot loosen it, and you don't ruin the cage by squeezing it in between the wires.

Price: Holder only, 15c; holder, with cuttle bone, 20c, postpaid.

### BIRD BATHING DISHES

Birds should bathe at least once or twice a week to be healthy and vigorous. Made especially for birds. Oblong, of right depth and regulation size; no-tip style.

Prices: Large size, opal or glass, 25c; postpaid, 30c. Small, 20c; postpaid, 25c.

### BIRD CAGE FEED AND WATER CUPS

We carry a large and varied stock of both opal and plain glass. We illustrate the three most popular styles. We have tried to make the following descriptions plain. Should you get the wrong style, return them and try again. Your choice, Opal or Plain Glass:

NO. 1902.—See illustration. Opal or Plain Glass, each 15c; postpaid, 20c each; 2 for 35c.

NO. 1904.—See illustration. Opal or Plain Glass, each 15c; postpaid, 20c each; 2 for 35c.

NO. 1913.—Opal only, see illustration. Postpaid, 25c; 2 for 45c.

NO. 1914.—Square.—Plain Glass, same style as No. 1913 but larger, for Breeding Cage and Robin Cages. Postpaid, 25c; 2 for 45c.

NO. 80.—Round Opal for Bungalow Cages. Postpaid, 20c; 2 for 35c.

NO. 90.—Round Glass, 1 inch deep, to set on the floor of cages for feed or sand. Postpaid, 20c; 2 for 35c.

NO. 25.—Similar to 1904 except that it is open top and can be filled from the outside if you wish to. Your choice, Opal or Glass, 15c each, or 20c each postpaid; 2 for 35c.

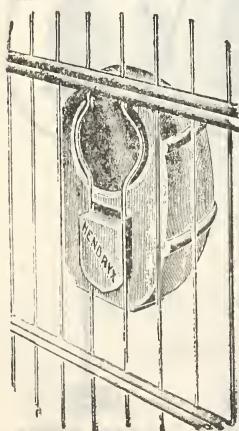
### TONIC OR MEDICINE CUP

This is a small cup that slips in between the cage wires and holds about a tablespoonful. Ideal for feeding Health or Song Food, Tonic, etc.

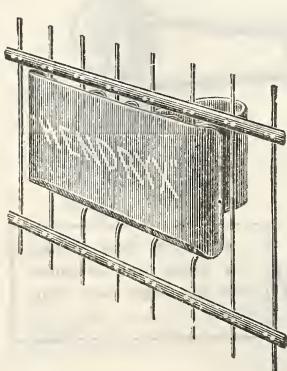
Price 15c; 2 for 25c; postpaid.

### EXTRA PARTS, ETC.

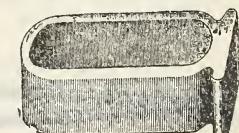
**BIRD CAGE PERCHES** (give length)—10c; SWINGS, 25c. (Nests and springs, page 17.) **PARROT FOOT CHAINS**, 50c; **PERCHES**, 50c; SWINGS, 35c.



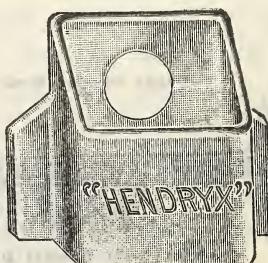
Bird Cage Cup, No. 1904



Bird Cage Cup, No. 1910



Tonic Cup



No. 1910

**BIRD CAGES AND STANDS.**—We carry in stock a large assortment of plain and fancy cages. Our Complete Catalog describes the most popular styles, but call if you can.

# PARROTS

Young parrots arrive during July and August, but we aim to have stock on hand at all times. Price of trained talkers on request. We offer hand raised, not the wild, trapped, unmanageable birds.

**PANAMA PARROT.**—The most popular parrot with our trade. Of quite large size, gentle disposition, easily taught and become great favorites. Deep green plumage. They often show a yellow spot on the back of the head. Young, 6 to 8 months old, each \$25.00 and \$30.00; extra select, \$35.00; Old Parrots, Trained Talkers, \$50.00 and up.

**B B OR DWARF PARROTS.**—These cute little parrots make great pets. They are active, bright and wideawake. They are not much on the talk, but can be trained. Their dark green plumage is always smooth and pretty. Their gentle disposition and winning ways make them great favorites. Each, \$7.50.

## AUSTRALIAN SHELL PARAQUETS

Often called Lovebirds, look like a miniature parrot, body a little larger than a canary; long tail, plumage green, very intelligent and beautiful. Each, \$4.00; pair, \$7.50.

## Parrot Cages

We offer the latest and best designs of Parrot Cages on the market.

### MOULDING BASE, SQUARE CAGES

Made of extra heavy tinned wire, new style moulding base, with removable cleaning drawer, and also has wire grating to keep bird from getting feet on dirt. Tinned iron, self-locking feed cups.

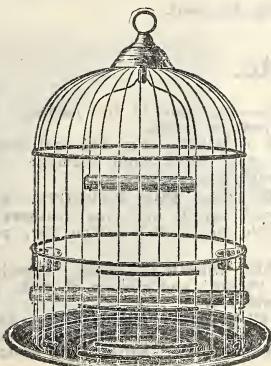
No.	Size	Height	Price
101	15 $\frac{1}{2}$ x 14 in.	25 in.	\$14.35
102	17 $\frac{3}{4}$ x 15 $\frac{1}{4}$ in.	28 in.	15.85
103	21 $\frac{1}{4}$ x 17 $\frac{1}{2}$ in.	30 in.	18.00

### ROUND PARROT CAGES

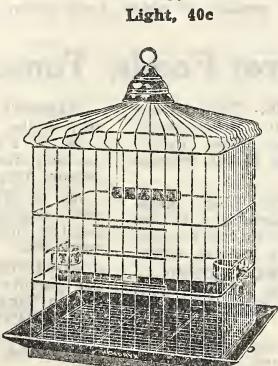
These are very popular on account of the low prices.

No.	Diameter	Height	Price
No. 70	12 in.	20 in.	\$ 4.20
No. 75	13 in.	21 $\frac{1}{2}$ in.	4.90
No. 80	14 $\frac{1}{2}$ in.	23 in.	6.85
No. 85	16 in.	24 in.	8.65
No. 90	17 $\frac{3}{4}$ in.	30 in.	11.95
No. 91	22 $\frac{1}{2}$ in.	39 in.	16.85

**PARROT FOOT CHAINS, 50c: PERCHES, 50c; SWINGS, 35c.**



Style No. 70 to 91



Style No. 101 to 103



Panama Parrot

### FANCY SQUARE CAGES

Made of extra heavy tinned wire, and heavy tin base, strong and self-locking feed cups, grating and tray.

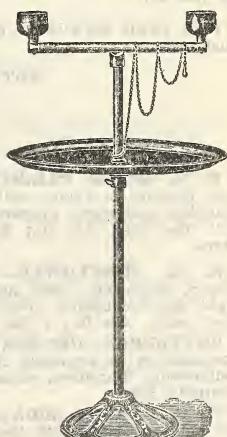
No.	Size	Height	Price
125	14 x 10 $\frac{1}{2}$ in.	21 in.	\$ 8.90
130	16 $\frac{1}{2}$ x 11 $\frac{1}{2}$ in.	24 in.	10.70
135	17 $\frac{1}{2}$ x 14 in.	27 in.	12.20

### PARROT STANDS

No. 1.—Finished in black enamel. Complete with feed cups, tray and chain. Good heavy base, so it will not tip over. Tray adjustable to any height. Price \$15.00. Wire Stand Covers, \$10.00.

#### PARROT CAGE CUPS

Heavy, 50c  
Light, 40c



Parrot Stand

The flowers bloom and fade away: books are read and then cast aside and soon forgotten, and we tire of the so-called pleasures of life and demands of society. A parrot is always amusing and interesting, and it is a pleasure to watch it develop from day to day its powers of mimicry. It will soon learn to greet you with "Good morning." Such a pet will stand the test of time and grow in favor constantly.

PARROT  
FOOD  
PAGE  
132

## ROUTLEDGE H. Q.—“Highest Quality”—BIRD FOOD

We are making a specialty of Bird Foods and Remedies and carry in stock the largest and only complete line in the Northwest. Our rapidly increasing trade shows that the public appreciates the opportunity to get H. Q. “HIGHEST QUALITY” foods and remedies of “MERIT” for their pets.

### H. Q. ROLLER BIRD SEED

Our own special mixture for American, Hartz Mountain and St. Andreasberg Canaries; especially prepared for the singers. Contains no hemp, but the correct proportions of highest quality recleaned Canary, Sweet Rape, small Golden Millet and a few other seeds to give health and “pep” to the singers.

It is no wonder that thousands of canaries die annually from the effects of common Bird Seeds put up by grocery and drug companies. It is generally old, musty or dusty, inferior seeds, and not correctly mixed.

Try a package of our H. Q. and note the difference, and also the saving, even though it is a little higher in price.

“H. Q.” sold only in sealed 1-lb. cartons.

Price, large full pound cartons, with small envelope of Bird Sand and piece of cuttlebone, 25c lb. Add postage if wanted by mail.

**H. Q. HEMP SEED.**—Hemp is the large, round, dark-grey seeds found in all cheap mixtures. It is very heating and fattening and should be fed sparingly and not to singers at all.

Lb. 20c; 10 lbs. \$1.25

**H. Q. CANARY.**—There is a big difference in the stock and quality of canary. Buy our recleaned Sicily seed. Quantity price on request.

Lb. 20c; 10 lbs. \$1.50

**H. Q. MILLET.**—Small golden soft shell, fresh and recleaned.

Lb. 15c; 10 lbs. \$1.25

**H. Q. SWEET BIRD RAPE.**—Easily detected by the sweet taste. Beware of cheap rape.

Lb. 20c; 10 lbs. \$1.60

**H. Q. CRYSTAL AGATE BIRD GRAVEL.**—A new and ideal product, becoming very popular with bird fanciers.

2-lb. carton 15c

**H. Q. SILVER BIRD SAND.**—White and clean; put up in 2-lb. cartons, 15c; in bulk, 5 lbs. 30c; 10 lbs. 50c.

**RED BIRD GRAVEL.**—Preferred by some of our customers.

2-lb. box 20c

NOTE.—Add postage to above foods when ordering by mail.

### Parrot Foods, Tonic, Etc.

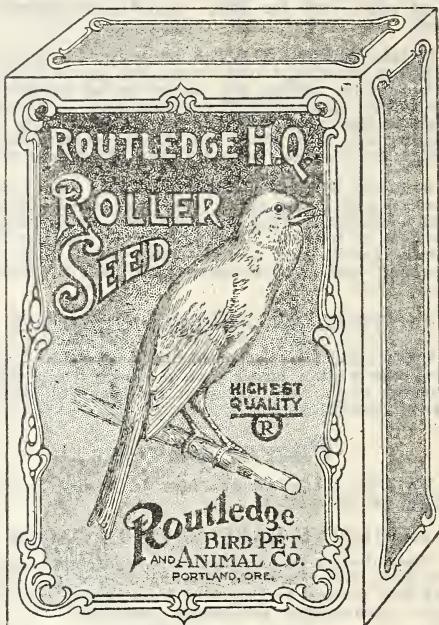
**H. Q. MIXED PARROT SEEDS.**—This is our own mixture of clean, well cured sunflower, hemp, pumpkin and corn, properly mixed. Your “Polly” will like this. 25c lb.; 5 lbs. for \$1.00; postage extra.

**H. Q. SUNFLOWER.**—We offer only large, plump, full-meated seed properly cured and of the right age for health. Far superior to the average stock sold. 20c lb.; 5 lbs. for 90c; postage extra.

**ROUTLEDGE GENERAL PARROT TONIC.**—Prepared by us expressly for parrots afflicted with indigestion, diarrhoea, catarrh and being off feed. Postpaid 25c.

**M. G. PARROT SPRAY.**—Will cure parrots of the habit of biting off their feathers. Per bottle, 50c; postpaid 60c.

**HALLER'S PARROT TONIC.**—Will cure colds and run-down condition. 25c, postpaid 30c.



Design Copyrighted

This illustrates our new H. Q. Bird Seed Carton—Highest quality seed obtainable. (Green, yellow and red box, yellow bird.) Take no other. Ask your dealer to stock it and send us his name and we will do the same.

**MAW (Poppy).**—Bird tonic ..... 40c lb.

**LETTUCE SEED.**—For birds ..... 35c lb.

**CUTTLE BONE.**—High grade, large size. Each 10c, or 2 for 15c, postpaid; with patent fasteners or holders, 10c and 15c, postpaid.

**PARROT CORN.**—Best quality for parrots. 15c lb.; 4 lbs. 60c; postage extra.

**M. G. PARROT BISCUIT.**—For old and young, to keep them in good health and plumage. Per carton 30c; postpaid 35c.

**M. G. HEALTH FOOD FOR PARROTS.**—Keep your parrot in good health and fine feathers by feeding this valuable food. Per carton 30c; postpaid 35c.

**POLLYCRACKER (Spratt's).**—Made especially for parrots for a “treat” and change of diet. Per carton 25c; postpaid 30c.

**KAEMPFERS PLUMAGE RESTORER.**—Keeps the plumage in fine condition and prevents picking and biting of feathers. Per bottle 40c; postpaid 50c.

**PARROT SPRAYERS.**—For applying sprays. Nickel plated, well made and lasting. Each \$1.50, postpaid.

**LIVING PRESENTS.**—Did you ever stop and consider what a desirable Christmas or birthday present a beautiful BIRD makes? They are so different, interesting and desirable, SO CHEERFUL AND LOVABLE.

## Routledge H. Q. Bird Remedies

These H. Q. remedies are our own preparations and fully guaranteed. Our own experts and our Veterinarian know pet stock, their ailments and best cures. Consultation free. Complete instruction in each carton.

A "Tonic" or "Medicine Cup" (see page 130) is the ideal way to feed these special foods. Only 20c, postpaid.

**ROUTLEDGE SONG RESTORER.**—For loss of voice and song. A wonderful preparation in dry granulated form. Used in conjunction with our liquid Song Tonic, alternating daily, invariably restores the song quickly. Postpaid 25c.

**ROUTLEDGE HEALTH FOOD.**—Feed in "tonic cup" twice a week. Especially compounded to combat intestinal ailments of birds, a trouble not generally understood but is the cause of many birds dying yearly. Postpaid 25c.

**ROUTLEDGE GENERAL TONIC.**—Made to meet a demand for helping birds in a rundown condition, where there is no definite ailment existing but still there is need for a tonic. Gives quick results. Put in water cup. Postpaid 25c.

**ROUTLEDGE MOULTING FOOD.**—Supplies the necessary elements of food value required by a bird at the beginning and during moulting time. The bird will repay you many times over with its sweet song for your thoughtfulness in supplying it with this food. Postpaid 25c.

**ROUTLEDGE SONG TONIC.**—For loss of voice and diseases of the respiratory organs. Stimulates peristaltic action and organs of the circulation. Put in water cup. Postpaid 25c.

**ROUTLEDGE COLD REMEDY.**—Birds suffering from colds, asthma and kindred troubles must have immediate attention or they are apt to be lost; at least the song will be destroyed greatly if not entirely. Keep this remedy on hand. Postpaid 25c.

**ROUTLEDGE DIARRHOEA REMEDY.**—The best that money and skill can produce, without a peer for quick and healthful results. Use our Bird Laxative first. Postpaid 25c.

**ROUTLEDGE BIRD LAXATIVE.**—Composed of vegetable oils, effective but harmless. Postpaid 25c.

**ROUTLEDGE BIRD OINTMENT.**—To keep down the unnatural dryness of the epidermis. Don't neglect the bird's feet and legs. Use this ointment for scales, roughness and leg mites. Postpaid 25c.



Look for this style carton. Three colors—green, yellow and red.

**ROUTLEDGE BIRD LINIMENT.**—One of the greatest remedies for diseases of the feet and legs of birds, also for skin troubles. Postpaid, 25c.

**Canary Leg Bands, doz. 20c postpaid.**

### Best Book on Canaries

**"CARE, FEEDING AND BREEDING OF CANARIES."**—A book of real information regarding Canaries. Also informs you how and what to use to overcome disease and trouble. It is based on many years of experience and study; 48 pages, nicely illustrated and well printed on heavy book paper. WORTH A DOLLAR, but priced at 25c; postpaid 30c.

**Canary Bird Specials—Very Popular—O. K.**  
These Six Articles Have Merit; We Sell Gross After Gross.

Trial order—1 each (6 kinds), only 90c, postpaid.

**BIRD MANNA.**—A combination of seeds, herbs and roots that nature intended birds should have. Food and medicine combined. A tonic and conditioner. Comes in half-round cakes, 2 for 35c.

**"PEP."**—The same kind of a tonic and conditioner as above. Per cake 15c; postpaid 20c; 2 for 35c.

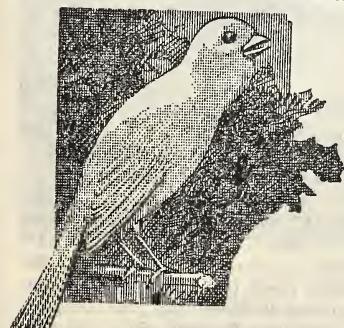
**CANARY HIGH BALLS.**—Another article of "Manna" merits. Highly praised. Comes in ball form and hangs in the cage. "Mr. Bird" eats it as he needs it. Each 15c; postpaid 20c; 2 for 35c.

**SPRATT'S COD LIVER OIL NESTLING FOOD.**—A food for young birds. A substitute for boiled eggs. An excellent food for old birds in the moulting season. Per pkg., 15c; postpaid 20c, or 2 for 35c.

**SPRATT'S SING SONG.**—An appetizing food for all songsters. Per tin 15c; postpaid 20c, or 2 for 35c.

**CANARY PIE (Haller's).**—A tonic food for loss of song, weakness, asthma, hard breathing, loss of feathers out of season, etc. Each 15c; postpaid 20c; 2 for 35c, postpaid.

Read our book, "Care, Feeding and Breeding of Canaries"; worth a dollar; price 20c, postpaid. See page 134.



## Bird Foods and Remedies—Continued

### Mite and Lice Powders

Watch out for lice on the birds and the little red mites that hide in the crevices of the cage or wall during the day and live on the birds at night. Your bird cannot be contented and happy with these pests.

**ROUTLEDGE DISINFECTANT CAGE WASH.**—There is a great demand for a disinfectant to use when washing cages that will destroy all disease germs, lice and mites. Will not harm the finest cage, either brass or wicker. Use a tablespoonful to a quart of water. Use Routledge Bird Soap to make a lather and clean the cage at the same time. Rub the cage dry with a soft, dry cloth, and it will shine like a new cage. Postpaid, 25c.

**BIRD LICE DESTROYER (H. Q.).**—Put up in powder guns all ready to use. 35c; postpaid 40c.

**BIRD INSECT POWDER.**—Very effective, if dusted on the bird. Pkt. 15c, postpaid. Large box, 30c, postpaid.

**ROUTLEDGE DEPLUMING MITE LIQUID.**—For destroying the depluming mite which causes the feathers to come out around the neck and on the back of the head. Postpaid, 30c.

### Haller's Canary Bird Remedies

**NOTE.**—All prices postpaid—5c less if called for at our store.

**CANARY BIRD PIE.**—A tonic, builder and a treat. Fasten to cage wires. Price 20c—2 for 35c postpaid.

**HALLER'S MOULTING FOOD.**—Should be fed during the moulting season. Postpaid 30c.

**HALLER'S HEALTH FOOD.**—Postpaid 30c.

**DUTCH SONG RESTORER.**—Tonic and regulator for singers out of song and weak. 25c, postpaid 30c.

### The Justrite Bird Foods and Remedies

Space will not permit us to describe this reliable stock but the names signify their uses. Justrite Bird Book 5c or free with orders.

Prices Postpaid. 5c less at our store.

	Price
Balm for Baldness .....	40c
Bird Bitters .....	30c
Bird Jelly .....	30c
Bird Gravel .....	20c
Bird Grit .....	20c
Bird Salve .....	20c
Bird Tonic .....	40c
Bird Wash .....	30c
Cage Cleaner .....	40c
Color and Pepper Food .....	30c
Crushed Oyster Shells .....	15c
Egg and Nestling Food .....	20c
Feather Pulling Rem .....	30c
Flake Charcoal .....	15c
Honey Roll .....	20c
Imported Seed .....	30c
Iron Tonic .....	30c
Lice Destroyer Kit .....	70c
Lice Powder .....	20c
Mixed Bird Seed .....	25c
Moultng Food .....	20c
Parrot Food .....	35c
Parrot Tonic .....	35c
Rol-Er-Ka-Nar-E Seed .....	30c
Silver Bird Gravel .....	20c
Song Restorer (Boxes) .....	20c
Vitamine Health Food .....	30c
Wild Grass Seed .....	25c

### Geisler—Kaempfers—Philadelphia—Spratt's Bird Supplies

**Feeds and Remedies.**—To conserve space, we will designate the different stocks as follows: (G) for Max Geisler, (K) for Kaempfers, (P) for Philadelphia Bird Co.'s, (S) for Spratt's.

**NOTE.**—The following prices are all postpaid; 5c less per package if called for. Prices subject to market changes.

Price, Postpaid	Price, Postpaid
Asthma Tablets (K).....	30c
Bird Seed—Mixed	
Geisler's Roller, 12-oz. pkg.....	40c
Philadelphia, 14-oz. pkg.....	40c
Routledge H. Q. Roller. (See page 132.)	
Spratt's Roller Canary Mixture.....	30c
Birdolene (K) .....	30c
Bird Biscuit (G). Plain.....	25c
Bird Bitters (P), general tonic.....	40c
Canarydyne (S) .....	25c
Color Food, Red or Orange, gives feathers better color. Fine for young birds or after moulting (S) .....	30c
Constipation Tablets (K).....	30c
Diarrhoea Tablets (K).....	30c
Laxative Tablets (K).....	30c
Mocking Bird Foods.—For Mocking Birds, Robins, Thrushes and all short-billed birds.	
Geislers, ½-lb., or Philadelphia.....	60c
Moultng Pepper (P), moulting season.....	40c
Nesting Hair, for nests.....	15c
Song Restorer (S).....	30c
Song and Moultng Foods (G).....	30c
Treatment A.—(Song Restorer) (G) .....	25c
Treatment B.—(Digestive Trouble) (G) .....	35c
Treatment C.—(Cold Cure) (G) .....	35c
Treatment D.—(General Tonic) (G) .....	35c
Vegetable Extract (G), general tonic.....	40c

**REMEMBER.**—The life and song of every bird depends on the quality of seed it gets. Routledge H. Q. Roller Seed is the best that is possible to buy. Use it always. See page 132.

## CATS—KITTENS—FOODS—SUPPLIES



Most every home has a cat and every cat should have a plaything. Catnip Mice and Catnip Balls are just the thing, make the cats playful, healthy and wide awake—they love the smell of catnip and crave it, a little occasionally to keep in good health is almost necessary.

## CATNIP MICE

Made of cloth, same size, shape and color of a real mouse, and stuffed with dried catnip leaves. Kitty will play for hours with this mouse and then should be given a little catnip. Price 15c; postpaid 20c.

**SPECIAL.**—1 Catnip Ball, 1 Catnip Mouse and 1 pkg. Catnip, postpaid, for 50c.

## CAT FOODS AND REMEDIES

**Spratt's Cat Food.**—A complete food for cats. Used at the leading catteries throughout the world. Large pkt. (P. P. 2 lbs.), price 30c. Add postage.

Constipation Pills ..... 50c; postpaid 55c  
Cough Tablets ..... 50c; postpaid 55c  
Diarrhoea Tablets ..... 50c; postpaid 55c  
Digestive Tablets ..... 50c; postpaid 55c  
Plea Powder ..... 30c; postpaid 35c  
Worm Capsules ..... 50c; postpaid 55c  
Worm Capsules for Cats ..... Postpaid 55c  
Worm Capsules for Kittens ..... 55c Postpaid  
Distemper Capsules for Cats ..... Postpaid 75c  
Tonic and Condition Tablets for Cats..Postpaid 50c

PERSIAN ANGORA CATS OR  
KITTENS

These long, fluffy, silky-haired pets are great favorites with the ladies. All popular colors.

**RANGE OF PRICES.**—Young Kittens: Males, \$10 to \$20; Females, \$7.50 to \$15. Write.

## PUPPIES AND DOGS

Buy your child a puppy and let them grow up together. Aside from the protection and companionship educational experts advise that all children are better by having pets.

Our pet stock, hutches and kennels are inspected regularly by Dr. M. Howes, veterinarian, and member of the Oregon Humane Society.



ROUTLEDGE SEED & FLORAL CO.

A healthy, bright lot of Scotch Collie pups ready for new homes. Don't you want one?

Most buyers prefer a pup so it can be raised and trained to suit, but often someone wants a full-grown dog. We sell both.

**PUPPIES ON DISPLAY AT OUR WEST SIDE STORE ONLY.**

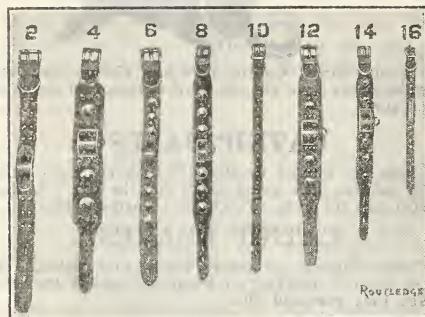
**PRICES OF PUPPIES.**—Pure-bred Stock (without pedigree papers): Fox Terriers, Collie Shep-

herds, Scotch Collies.—Females, \$7.50; males, \$10.00. English Setters, Pointers, Airedales, Cocker Spaniels.—Females, \$10.00 to \$15.00; males, \$15.00 to \$25.00. Toy, Boston and English Bulls.—Females, \$15.00 to \$25.00; males, \$20.00 to \$35.00. Mixed Breeds.—Females, \$6.00; males, \$7.50.

For pieces on fancy pedigree stock, write and state just what you want.

## DOG AND CAT SUPPLIES, ETC.

We carry in stock the largest and best assortment of Dog Collars, Chains, Leads, Muzzles, Sweaters, Blankets, Brushes, Combs, etc. Our new display boards in our salesroom, East or West Side Stores, show at a glance all styles, sizes and kinds. If you can call, do so.



### DOG COLLARS

We carry in stock the most complete line in Portland. Every kind and every style from 50c to \$5.00—the average price is from \$1.00 to \$1.50 each. Come in and make your selection or order by mail, giving breed of dog, age and neck measurement. We'll exchange if you are not satisfied with what we send.

### DOG AND CAT CARRIERS

#### Suitcase and Satchel Style

For carrying small dogs or cats by car or auto. Newest, latest and most satisfactory carrier out. They look like leather but are made of black vulcanized fibre board, light but strong. Metal corners and fasteners, lock and key, strong handle; wire screen ventilators with curtain to let down and button.

#### NO. 17. SUIT CASE STYLE

No.	Width	Length	Height	Price
A .....	.8 in.	16 in.	11 in.	\$4.25
B .....	.9 in.	18 in.	12½ in.	4.80
C .....	.9 in.	20 in.	14 in.	5.35
D .....	.9 in.	22 in.	15½ in.	5.90

#### NO. 29. IDEAL SATCHEL STYLE

Made same as above except that the wire window and curtain are in the ends and the flat top is hinged and opens up full. Very popular style.

NO. 14, 7x14x10 inches, \$3.20; NO. 16, 8x16x11 inches, \$3.75; NO. 18, 9x18x11½ inches, \$4.30; NO. 20, 11x20x12½ inches, \$4.85; NO. 22, 11x22x18½ inches, \$5.40. Parcel post weight on largest size only 5½ lbs.

### Miscellaneous Dog Supplies

LEATHER MUZZLES.—75c to \$1.50.

DOG COLLAR BELLS.—25c. Locks, 35c to 75c.

DOG COMBS.—Nickle plated, coarse \$2.00; medium or fine, \$1.65; flea, \$1.85.

DOG COATS or Slip-On.—\$2.75 to \$3.75.

SWEATERS (with legs).—Wool, \$3.25 to \$4.50.

FELT BLANKETS.—Shaped and strapped. \$2.25 to \$4.00.

Call at either our East or West Side Store and we will be glad to show you our stocks.

## WILLOW SLEEPING BASKETS

For small dogs and cats. Give them a bed of their own and they will keep off the furniture. Well made and lasting. High rounding back; nice enough for any room in the house. Can be stained to match the furniture. Made of imported willow ware. No. 1, 14x9 in., \$2.30; No. 2, 16x10 in., \$3.50; No. 3, 18x11 in., \$4.65; No. 4, 20x12 in., \$5.00; No. 5, 22x13, \$6.95.

## WILLOW CARRYING BASKETS

Extra classy carriers. Top lifts up; it locks with a willow bar. Tiny window in each end and a little barred door in one side. Used as a carrier or to lock the pet in while absent. No. 2, 14x9 in., \$4.00; No. 3, 16x10 in., \$4.50; No. 4, 18x11 in., \$5.25; No. 5, 20x12 in., \$6.00.

## DOG HARNESS—CORRECT STYLES

We have them for all kinds and sizes of dogs or pups. Give body measurements taken right back of the forelegs (around the body over the back). Prices vary from \$1.75 to \$6.50. Average price \$2.50 to \$4.00. Tell us kind of dog, age and whether fancy or plain. We'll exchange if not right.

## BOOKS ON DOGS

All About Dogs.—(Henry Vibert).....	\$1.10
Amateur Dog Book.—(Bruette)—Training, care and treatment, 150 pages.....	.66
Amateur Trainer.—(Haberlein) .....	1.35
Airedale, All About.—(Palmer).....	1.25
Airedale Terrier.—(Buckley) .....	2.60
Boston Terrier—All About It.—(Axtell).....	2.60
Common Sense Dog Doctor.—(Spratt's).....	.60
Dogs of All Nations.—(Mason).....	1.25
Fox Terriers, The.—(Dalzell) .....	1.00
Fox Terrier, The Perfect—(Ashley) .....	.70
Principals of Dog Breeding.—(Haynes).....	1.25
The Collie.—(Dalzell) .....	1.25
The Police Dog—(Meyer) .....	1.10
The German Shepherd (Police) Dog.—In word and picture; the only complete work on this breed, by von Stephanian .....	7.50
Shepherd Dogs.—Schooling and training.....	.85
Dog, Cat, Rabbit Pedigree Blanks—	
.....10c each; 3 for 25c; doz. 75c	

## DOG BRUSHES

NO. 32.—A high grade leather back with hand strap. A good and serviceable brush. Small, 75c; Large, \$1.00.

SLICKER BRUSHES.—Wire teeth set in rubber, wood back and handle. Combs the fleas out and slicks the coat. Price \$1.65.

## DOG LEADS AND CHAINS

All styles equipped with swivel snaps and hand-held. High grade and well made.

STYLE NO. 24.—Round woven strap leads, 4½ feet long, ¼-in., \$1.00 to \$2.00; ¾-in., \$3.00.

STYLE NO. 26.—Chains, 6 feet long; light, 75c; medium, 85c; heavy, \$1.00.

KENNEL CHAINS.—Swivel snap both ends, \$1.00 to \$1.25.

# ROUTLEDGE "H. Q." DOG AND PUPPY REMEDIES

## H. Q. MANGE REMEDY

Our Mange Remedy consists of a Germicidal Ointment, a Neutralizing Healing Ointment and a Sanitary Wash.

The treatment consists of from three to six applications of the germicidal ointment followed by the application of the neutralizing healing ointment. It is quite essential to disinfect the quarters of the dog in severe cases, to bathe the animal with a disinfecting wash before treating. For this purpose there is included a bottle of our H. Q. Dog Wash.

We have experimented with these two ointments for a number of years. We have selected the most aggravating cases of mange for our experiments, cases which have not responded to other treatments and with such gratifying results that we have given it the seal of our approval and given it a place in our high-class line of remedies.

Price, complete with full directions, \$1.00, or postpaid \$1.15.

From Oregon.

Routledge Seed & Floral Co.,

Gentlemen: I want to write and thank you for telling me how to cure my pet dog of mange. I used the H. Q. Mange Remedies like you said, and the dog is all well and it had mange so bad I would have had to kill it before now.

Yours very truly,

MRS. FRANK RICE.

## ROUTLEDGE H. Q. FLEA KNOX SHAMPOO

### For Dogs and Puppies

A disinfectant soap emulsion that cleans the skin, destroys dog odors and leaves the fur soft and fluffy.

Our many satisfied customers claim it **THE ONLY SHAMPOO THAT WILL FREE THE DOG OF THE TROUBLESOME FLEA.**

Spray or disinfect the dog's sleeping quarters with H. Q. Dog Wash to destroy fleas and odors or they will soon get back on the dog.

PRICE, Small size bottle 40c; large bottle 75c, postpaid.

### SOPEX

Your dog can be easily kept in show ring condition with Sopex. Thorough cleansing, prompt destruction of fleas and lice, healthful stimulation of the skin and the development of the true natural beauty of the coat are the quick results of a Sopex shampoo.

Sopex requires even less time than ordinary dog soaps because no rinsing is necessary. It imparts a glossy sheen to the coat and does not dry or tighten the skin. Fleas and lice are quickly destroyed by Sopex in a single bath. Price—2 oz. (makes 1 gal.) 50c; 4 oz., 75c; postage 10c extra.

## PEDIGREE BLANKS For Dogs, Cats, Rabbits

We offer breeders what we believe to be the prettiest and most up-to-date, properly constructed pedigree blanks. These are printed in two colors and beautifully illustrated.

Prices.—For Cats or Dogs or Rabbits, state which, 10c each; 3 for 25c; doz. 75c.

## H. Q. IODIZED COD LIVER OIL

Routledge H. Q. Cod Lived Oil (Iodized) is the best imported Norwegian Cod Liver Oil, treated to combine the curative properties of Iodine with the nourishing and tonic agencies recognized in high grade Cod Liver Oil.

For sick and convalescent animals, old or young. Useful in Rundown condition, Colds, Goiter, Lusterless Hair, Distemper, following Polson; lack of health and strength, etc.

Prices.—6-oz. bottle 50c; postpaid 60c; 16-oz. \$1.00; 32-oz. \$1.75; gal. \$6.00. Directions on each label.

## H. Q. CANINE VEGETABLE OIL

For young or old Dogs or Cats, use according to directions. For constipation, loss of appetite, internal hair balls and after worming.

A high grade vegetable oil that does not, like castor oil, have a bad after effect. Stimulates normal bowel movement.

Price.—3-oz. bottle 25c; postpaid 35c. Directions on label.

## H.-Q. DOG WASH

For Toy Dogs and Puppies.—An excellent disinfectant and a germ destroyer. Kills all dog odor and fleas, improves the skin and coat. Use in bath water with H. Q. Dog Soap. 1 tablespoonful to a gallon of water. Dog Wash Price: 3-oz. bottle 25c; postpaid 35c; 6-oz. 40c; postpaid 50c; pint 75c.

H. Q. PUPPY WASH, same prices as above.

## H. Q. MEDICATED DOG SOAP

This soap is prepared from the formula of a celebrated physician and combines all healing and purifying ingredients possible in a soap. Its power to fortify and protect the user or animal from contagion is truly wonderful. Will remove dandruff, stimulate hair growth, prevent most skin eruptions, and destroys most germ diseases communicated by contact. Leaves the skin and fur in the best of condition. Price per cake, 25c, postpaid.

## H. Q. SPECIAL DOG SOAP

Made to meet a demand for all kinds of animals or fowls, cats, dogs, chickens, etc. It has the proper ingredients to get results in all general conditions, still be harmless to the animal which it is used on. It is non-poisonous and non-irritating to animals or humans. Price per cake, postpaid, 15c.

## ILAK SHAMPOO

FOR DOGS, PUPPIES AND CATS.

If you bathe your dog with ordinary soap or any preparation that cuts the oil, you leave him unprotected with a dry, irritated skin by taking away all the natural oil, which subjects him to colds and skin diseases.

ILAK SHAMPOO removes dirt and germs and odor from your dog's fur and skin and at the same time replaces the natural oil necessary to retain a healthy skin and lustrous coat.

ILAK SHAMPOO.—The fluffy, glossy coat producer and reconditioner, is non-poisonous, non-irritating, absolutely harmless and a preventative against fleas, lice, nits, skin diseases and colds. Perfectly harmless to the eyes and stomach of the smallest puppy or kitten, thoroughly cleanses the skin and coat and brings out its natural life and beauty.

It cannot be used too often, but once every few weeks is sufficient to prevent fleas, lice, nits, colds and skin diseases.

DIRECTIONS.—Simply wet the dog with warm water, apply Ilak Shampoo, massage briskly. Then rub lather off with hands, rinse the dog with warm water, and dry with coarse towel.

PRICES.—6-oz. bottle 50c; 14-oz. \$1.00; 32-oz. \$1.65. Postage extra.

## "H. Q." DOG AND PUPPY BISCUIT

Hundreds of our customers tell us that our "H. Q." (Highest Quality) Biscuit are equal to any and better than most kinds they have ever fed. The pups as well as the grown dogs are always happy and healthy when fed "H. Q. Brand."

Only clean, sweet meats and choice cereals are used in the manufacture of H. Q. Biscuit. The proportions are scientifically blended, so as to produce a thoroughly balanced ration rich in protein—containing all the elements necessary to keep the dog in the best physical condition. Biscuits baked daily, always fresh—no mould or bugs.

**PRICES—DOG BISCUIT.**—Large 3 lb. cartons, 50c; 10 lbs. at 12c lb.; 25 to 100 lbs. at 10c lb.

**PUPPY BISCUIT.**—Same prices as above.

**NOTE.**—Add postage if wanted by mail.

### CALIFORNIA BISCUITS FOR DOGS, PUPPIES AND FOXES

#### A POPULAR WELL-KNOWN BRAND PUPPY OR DOG BISCUITS

**Prices.**—Lb. 20c; 2 lbs. 35c; 6 lbs., 75c; 10 lbs. \$1.40; 25 to 100 lbs. at 11½c lb.

Add postage if wanted by mail.

### "K. O." DOG & PUPPY BISCUITS

The K. O. Dog Food Co. is now under new management and they are putting out a high grade product that is rapidly coming to the front.

**PRICES.**—2 lbs. 35c, 5 lbs. 65c, 10 lbs. \$1.20, 25 to 100 lbs. at 10c lb.

### PULVEX

#### FOR ALL ANIMALS & BIRDS

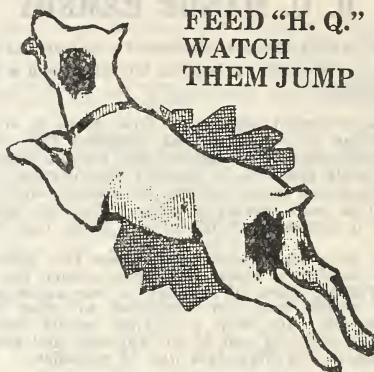
Pulvex is a new and remarkable dusting powder for animals and birds. Every pet fancier will welcome the arrival of this surprising substance which makes possible at last the thorough cleansing of the animals and birds of fleas, lice, ticks or mites. Only one application necessary because Pulvex is unlike ordinary powders, it actually kills the insects, not merely stunning or stupefying them. Pulvex is odorless, clean and entirely non-poisonous.

**PRICES.**—2 oz. 50c, postpaid 60c; 12 oz. size, \$1.00 postpaid, \$1.10. Descriptive booklet free.

### KUR-MANGE

Internationally famous as a dependable cure for many forms of Mange.—Kur-Mange stands unique in the favor of dog and cat breeders as an odorless and non-poisonous preparation. Despite its great effectiveness, it is entirely harmless to the animals. Kur-Manke will not spot, stain or scent the house furnishings. Kur-Manke is a fine powder, to be dissolved in water and applied either as a wash, bath or dressing. In addition to mange, it is highly effective in curing many superficial skin diseases such as exzema and ringworm and it also kills fleas, lice, ticks and mites in a single treatment.

**PRICES.**—3 oz. (makes 1 gal.) 75c, or 90c postpaid. Descriptive booklet free.



### 60-MINUTE WORM REMEDY

A wonder in action, yet perfectly harmless to the dog or pup. There is no danger or bad after effects from this remedy—it is a vegetable compound and produces unfailing results within 2 hours, generally within 30 or 40 minutes, and our H. Q. Iodized Cod Liver Oil for a week following would be beneficial.

**Prices, postpaid.**—Small carton, 6 dozen, 60c; 15 doses, \$1.00; 36 for \$2.00; 75 for \$3.75.

**Note.**—If the dog is constipated give a "laxative" night before you use any worm remedy.

### DR. HOWE'S DOG MEDICINES

These remedies have been used successfully since 1887. They are put up by our own veterinary, Dr. M. Howes, Jr., graduate of Cornell University. He is recognized as the best veterinary in the Northwest. Consultation free—write.

No. 3—For cold and distemper.....	\$1.00
No. 5—Bowel Trouble—Constipation.....	1.00
No. 707—Chronic Skin Diseases.....	1.00
No. 9—Blood Purifier .....	1.00
Antiseptic Eye Medicine.....	.50
Ear and Canker Remedy.....	.50
Etherized Oil—Sore Throat, Pneumonia, Bronchitis, etc.....	1.00
Goiter Remedy .....	1.00
White Liniment—For sprains, etc.....	1.00
Worm Medicine .....	.50
Mange, Eczema, Ringworm.....	.50
Rickerts Remedy .....	\$1.00

### CANNED DOG AND PUPPY FOODS

#### CALO DOG FOOD

CALO DOG FOOD is a cooked, canned meat product ready to feed, containing meats, cereals, vegetables and oils. For dogs, puppies, cats or foxes.

**PRICES.**—One lb. cans 15c each; 8 for \$1.00. Write for 4-doz. case price. Postage extra.

#### VITAMONT

The wonder dog and puppy food. A perfectly balanced food composed of wholesome meat and cereals.

**PRICES.**—1 lb. can 15c, 7 for \$1.00.

#### KEN-L-RATION

The Dog Food Supreme.—Known from Coast to Coast. A wonderful balanced ration of cooked meat, cereals and codliver oil, all ready to serve. No cooking, no waste, no mess. Easy to feed and economical to use.

**FEEDING.**—The amount to feed is regulated by the size of the animal. Generally speaking, animals weighing 8 to 15 lbs., 3 meals per can; 25 to 30 lbs., 2 meals per can; 45 lbs. or over, 1 can per day.

**PRICES.**—1 lb. can 15c each; 7 for \$1.00. PUP-E-RATION, for young pups, 20c can straight Write for 4-doz. case price.

**Note.**—Add postage to above foods if wanted by mail.

# Spratt's Dog and Puppy Foods, Remedies, Etc.

Known and used the world over. None better. We have hundreds of customers and now buy in carload lots. Prices subject to market changes. Spratt's descriptive Dog Culture Book and Catalog free.

## SPRATT'S DOG FOODS

NOTE.—ADD POSTAGE on all sizes if wanted by parcel post, and allow a little extra for weight of packing.



**SPRATT'S DOG CAKES.**—A properly balanced meat, grain meal and vegetable compound that will not spoil with age. Known and recommended the world over as a complete and constant food for dogs. Most owners of dogs rely on scraps from the table as "dog feed." This is all right as far as it goes, but to be on the safe side and for vacation trips, etc., always keep a supply of Dog Cakes on hand.

**DOG CAKES (whole).**—1-lb. cartons, 40c; out of bulk, 5 lbs. 75c; 10 lbs. \$1.45; 25 lbs. \$3.10; 100 lbs. \$11.75.

**KIBBLED DOG CAKES.**—Small nut size, out of bulk, 5 lbs. 80c; 10 lbs. \$1.50; 25 lbs. \$3.20; 100 lbs. \$12.00.

**COD LIVER OIL CAKES** are invaluable for old or delicate dogs or those recovering from sickness. Dogs eat them without coaxing.

**Prices.**—2-lb. cartons, 45c; out of bulk, 5 lbs. 80c; 10 lbs. \$1.55; 25 lbs. \$3.35; 100 lbs. \$12.75.

**FIBO** granulated. Egg yolks added for Puppies or Growing Dogs.—For shy feeders or those recovering from sickness. Small nut size.

**Prices.**—2-lb. cartons, 45c; out of bulk, 5 lbs. 85c; 10 lbs. \$1.65; 25 lbs. \$3.60; 100 lbs. \$13.75.

## SPRATT'S PUPPY FOODS

Postage Extra by Mail.

A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits when about one month old, and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old.

**PUPPY BISCUIT.**—2-lb. cartons 45c; out of bulk, 5 lbs. 80c; 10 lbs. \$1.50; 25 lbs. \$3.25; 100 lbs. \$12.25.

**BONE MEAL FOR PUPPIES.**—The strong frame builder. 3-lb. tin can 50c.

**ORPHAN PUPPY CAKES.**—Discarded for Pup-pilac.

**OVAL PUPPY CAKES.**—Very popular; ideal size. Cartons 45c; 5 lbs. 80c; 10 lbs. \$1.55; 25 lbs. \$3.35; 100 lbs. \$12.75.

**CHARCOAL OVALS.**—Same as above with charcoal added; stomach conditioner and gas absorbent. Prices same as above.

**PUPPILAC.**—A perfect substitute for milk. For weaning and rearing puppies and fox cubs. Full cream to replace or aiding Bitches' milk. 10 oz. can 75c, 21 oz. can \$1.50.

**PEPSINATED PUPPY MEAL.**—For delicate puppies. 35c and 70c.

**PLAIN PUPPY MEAL.**—The standard weaning food. Carton 45c; 5 lbs. 75c; 10 lbs. \$1.45.

**SPRATT'S DOG CULTURE.**—New edition, 48 pages, contains valuable information on the care, management, breeding, rearing and feeding. Also tells all about Spratt's Food, Remedies and Supplies.. **FREE UPON REQUEST.**

## REMEDIES AND MEDICINES

**Alternating Cooling Tablets.**—For heated blood, etc. 50c; postpaid 55c.

**Anti-Asthmatic Tablets.**—50c; postpaid 55c.

**Anti-Rickets Tablets.** 50c; postpaid 55c.

**Antiseptic Soap (Black).**—For cuts, wounds, ulcers, etc., disinfectant and germicide. Cake 25c, postpaid 30c.

**Anti-Vomit Pills.** 50c; postpaid 55c.

**Chronic Skin Disease Tablets.**—50c; postpaid 55c.

**Choreo Tablets.** 50c; postpaid 55c.

**Constipation Tablets.** 50c; postpaid 55c.

**Cough Tablets.** 50c; postpaid 55c.

**Dry Cleaning Powder.** 35c; postpaid 40c.

**Digestive Tablets.**—For severe cases of indigestion. 50c; postpaid 55c.

**Diarrhoea Tablets.**—To relieve diarrhoea. Post-paid 50c.

**Distemper Tablets.**—For toy dogs and puppies. 75c; postpaid 80c.

**Flea Soap.**—Kills lice and fleas, prevents skin diseases and leaves the coat smooth, and glossy. Cake, 30c, postpaid.

**Ear Canker Ointment.** 75c; postpaid 80c.

**Eye Lotion (tablet form).** 50c; postpaid 55c.

**Eczema Remedy.** 50c; postpaid 55c.

**Flea Powder.** 30c; postpaid 35c.

**Hair Stimulant and Restorer.** 50c; postpaid 55c.

**Kidney Tablets.** 50c; postpaid 55c.

**Liniment for Animals and Humans.** 50c; postpaid 55c.

**Liver Tablets.** 50c; postpaid 55c.

**Locurium Ointment.**—For wounds, cuts, and bruises. 50c; postpaid 55c.

**Pneumonia Tablets.** 50c; postpaid 55c.

**Purgative Tablets.**—Perfectly safe and effective. 50c; postpaid 55c.

**Tonic and Condition Tablets.**—For toy dogs and puppies. 50c; postpaid 55c.

**Worm Capsules for Dogs.** 50c; postpaid 55c.

**Worm Capsules for Puppies.**—May be given with perfect safety. 50c; postpaid 55c.

**Tape Worm.**—Special 50c; postpaid 55c.

**Vermifuge Capsules.**—For toy dogs and puppies. 50c; postpaid 55c.

**Mange Remedy.**—Pints 75c; postpaid 85c.

## Q-W DOG REMEDIES

Pure, wholesome remedies, good enough for humans, prepared by a "Canine Specialist" who has owned thousands of dogs and knows what's what when it comes to treatment of dog troubles. Used and recommended by thousands of dog breeders.

**BLACK TONGUE MIXTURE, Q-W.**—For use in prevention and in treatment of black tongue. \$2.00 and \$3.50 sizes; postpaid, \$2.10 and \$3.70.

**BREEDING TABLETS, Q-W.**—For stimulating sexual powers in dogs, makes males serve vigorously, bring backward bitches in season, induce conception. \$2.00 postpaid.

**CONDITION POWDER, Q-W.**—Blood purifier, stomach cleanser, digestion corrective, bowel regulator. To help put and keep dogs and cats in condition, and give pep, ginger. \$1.00 and \$3.00 sizes; postpaid, \$1.10 and \$3.25.

**CONSTIPATION PILLS, Q-W.**—Quick, safe laxative. No evil after effects. Splendid for humans, too. \$1.00 postpaid.

**COUGH MIXTURE, Q-W.**—For colds, coughs and all bronchial troubles. \$1.00; postpaid, \$1.10.

**DIARRHOEA AND DYSENTERY TABLETS, Q-W.**—For loose bowels and to help soothe and heal inflamed intestines. \$1.25 postpaid.

**DISTEMPEROL, Q-W.**—For the treatment of distemper and to help carry animal safely through disease. \$2.00 and \$3.50 sizes; postpaid, \$2.10 and \$3.70.

**EAR CANKER LOTION, Q-W.**—For internal sores, abscesses, cankers, etc., of the ear, causing dog to hold head on one side, scratch ear, etc. \$1.25; postpaid, \$1.35.

**EYE SALVE, Q-W.**—For weak, running, matted, inflamed eyes and lids and for film or abscess on eye and to help strengthen weak eyesight. \$1.00 postpaid.

**FLEA OIL AND COAT GROWER, Q-W.**—For use in killing vermin on dogs and other domestic animals without wetting and in keeping off flies, fleas, lice, etc. Instantly applied. Simply rub into coat. Pt., \$1.00; postpaid, \$1.15; Qt., \$1.75; postpaid, \$1.95.

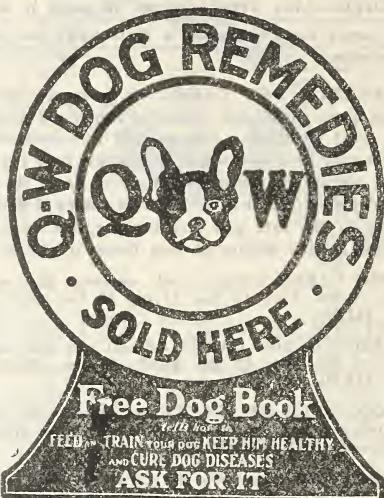
**FLEA POWDER, Q-W.**—For dry-killing fleas on dogs, especially suited to small dogs and for use in winter. \$1.00 per box; postpaid, \$1.10.

**FIT AND SEDATIVE TABLETS, Q-W.**—For fits, convulsions and nervous dogs and to help soothe nerves, kill pain, promote sleep. \$1.25 postpaid.

**HEALING SALVE, Q-W.**—The pride of the Q-W; a wonderful salve for sores, cuts, tears, ulcers, cankers, rashes, blisters, sore footpads, etc. Fine for hunting dogs that get torn up. Good for other animals, too, and for humans. \$1.00 and \$3.00 sizes; postpaid, \$1.10 and \$3.20.

**LINIMENT, Q-W.**—For sprains, bruises, rheumatic or muscular cramps or pains, kennel stiffness, and partial paralysis. \$1.25; postpaid, \$1.35.

**LIQUID SULPHUR COMPOUND, Q-W.**—For bathing dogs with itch, giving sulphur baths, cooling blood in eczema and giving dogs sulphur in their drinking water. Fine for sulphur baths for humans, too. \$1.00 and \$1.75 sizes; postpaid, \$1.10 and \$1.95.



**MANGE AND FLEA SOAP, Q-W.**—A wonderful sulpho-cresol cleanser, skin healer, vermin soap, for dogs, cats and other animals. \$1.00 postpaid.

**MANGE LOTION, Q-W.**—For treating mange, eczema and other skin eruptions on dogs and other animals and in assisting growth of rich hair on man or beast. \$1.00; postpaid, \$1.10; qt., \$3.25; postpaid, \$3.50.

**PHOSPHATED COD LIVER OIL COMPOUND WITH LIME, Q-W.**—Quickest food builder for wasting diseases, distemper, rundown condition, rickets, etc. Marvelous bone grower for pups. Indispensable in kennel. Pt., \$1.25; postpaid, \$1.35; Qt., \$2.00; postpaid, \$2.25; Gal., \$7.00, by express.

**RHEUMATISM TABLETS, Q-W.**—For rheumatism, stiff joints, partial paralysis and gout. \$1.00 postpaid.

**TAPE WORM MIXTURE, Q-W.**—For eradicating tape worm's head (the important part) as well as segments. \$1.00 and \$2.50 sizes; postpaid, \$1.10 and \$2.70.

**TONIC AND RED BLOOD BUILDER, Q-W.**—Splendid pick-up tonic for anemic, rundown animals or humans. Valuable in distemper. \$1.00; postpaid, \$1.10.

**VERMINOL, Q-W.**—Powerful disinfectant, germ and vermin killer, dog dip. For use in killing fleas, lice, mites. Pt., \$1.25; postpaid, \$1.40; qt., \$2.00; postpaid, \$2.25.

**WORM MIXTURE, Q-W.**—For use in expelling intestinal parasites from dogs, cats, foxes, rabbits, etc, including round, whip, hook and seat worms. \$1.00 and \$2.50 sizes; postpaid, \$1.10 and \$2.70.

## Clayton's Dog Remedies

Widely advertised and known from Coast to Coast. Send for Clayton's Free Book, "A Treatise on the Dog," full of valuable information for the dog owner.

BY MAIL.—Add 5c to the 25c sizes and 7c to the 60c sizes to cover packing and postage.

**BLOOD PURIFYING AND COOLING PILLS.**—Especially useful in eczema and all skin diseases. 60c.

**CANKER LOTION (Liquid)—(Tablets).**—For external and internal canker, deafness, etc. 60c.

**CEOLINE DOG WASH AND DISINFECTANT.**—For fleas; for washing your dog. To disinfect your kennel. 40c.

**CONDITION PILLS WITH PEPSIN.**—A very reliable remedy in all rundown conditions of the system, especially valuable in distemper. 60c.

**COUGH REMEDY.**—For coughs and colds from whatever cause. 60c.

**CEOLINE SOAP.**—25c.

**CHOREA TABLETS.**—60c.

**DIARRHOEA REMEDY (Liquid or tablets).**—60c.

**DOG SOAP.**—25c

**DISTEMPERINE (Liquid)—(Tablets).**—For distemper. 60c.

**DIGESTIVE TABLETS.**—For all forms of indigestion. 60c.

**EYE LOTION (Liquid)—(Tablets).**—For all diseased condition of the eye. 60c.

**FIT REMEDY (Liquid)—(Tablets).**—For all kinds of fits or convulsions, epilepsy, etc. 60c.

**GOITRE REMEDY.**—To relieve enlarged glands of the neck, goitre. \$1.00.

**HAIR TONIC.**—For the hair. 60c.

**KILFLEA POWDER.**—For fleas. 25c.

**KILFLEA POWDER.**—For dogs and cats. 35c.

**LAXATIVE PILLS.**—Act directly on the liver and secretions and keep the bowels in good condition. 60c.

**MANGE REMEDY.**—For skin diseases. 60c.

**PUPPY TONIC.**—To strengthen weak puppies, relieve them of colic, prevent and stop bloating and formation of gas in the stomach and bowels. 60c.

**PUPPY WORM BULLETS.**—Little red. 60c.

**RHEUMATISM TABLETS.**—60c.

**SULPHUR TABLETS.**—60c.

**SHAMPOO.**—For dogs. 25c.

**SKIN LOTION.**—Colorless. 60c.

**TAPE WORM EXPELLER.**—Is especially prepared for tape worm. 60c.

**VERMIFUGE (Liquid or soft capsules).**—For puppies after they are 10 days old and dogs of all ages and breeds. 60c.

**WORM PILLS.**—Composed of the best remedies known for expulsion of worms. 60c.

## Clayton's Cat Remedies

These Remedies Are Being Used by the Leading Cat Fanciers Everywhere.  
Clayton's 32-Page Treatise on the Cat—Free.

**CAT BLOOD PURIFYING AND COOLING TABLETS.**—For all blood diseases. 60c.

**CAT CANKER LOTION TABLETS.**—For all diseases of the ear. 60c.

**CAT COUGH REMEDY.**—For coughs. 60c.

**CAT DIARRHOEA TABLETS.**—60c.

**CAT DIGESTIVE TABLETS.**—For all stomach disorders, for vomiting, sweetens the stomach. 60c.

**CAT DISTEMPERINE TABLETS.**—60c.

**CAT EYE LOTION TABLETS.**—60c.

**CAT FIT TABLETS.**—For fits. 60c.

**CAT LAXATIVE TABLETS.**—60c.

**CAT MANGE REMEDY.**—60c.

**CAT MOUTH WASH.**—For all ulcerated conditions of the mouth. 60c.

**CAT TAPE WORM EXPELLER.**—60c.

**CAT TONIC CATNIP CONDITION TABLETS.**—For all run down conditions. 60c.

**CAT VERMIFUGE (Liquid).**—For very young kittens; expels worms. 60c.

**CAT WASH AND DISINFECTANT.**—Kills fleas, disinfects. 25c.

**CAT WORM TABLETS.**—60c.

**KILFLEA POWDER.**—Dogs or Cats. 35c.

BY MAIL.—Add 7c to price of Remedy for postage.

## Glover's Dog Remedies

An Old and Well-Known Line of Dog Preparations.

	Sizes	Postpaid		Sizes	Postpaid
<b>MANGE MEDICINE</b>	\$0.65	\$0.75	<b>TAPE WORM CAPSULES</b>	.65	.70
<b>DISTEMPER MEDICINE</b>	1.25	1.35	<b>WORM CAPSULES</b>	.65	.70
<b>VERMIFUGE</b>	.65	.70	<b>SULPHUR TABLETS</b>	.65	.70

## Sargent's Famous Dog Medicines

BY PARCEL POST.—Add 5c to 25c articles and 7c to 60c sizes for packing and postage.

**Arsenic and Iron Pills.**—A blood purifier. 60c.

**Canker Wash.**—For internal and external ear canker. 60c.

**Carbolic Tar Soap.**—25c.

**Condition Pills.**—60c.

**Constipation Capsules.**—60c.

**Cough Medicine.**—60c.

**Diarrhoea Medicine.**—60c.

**Distemper Medicine.**—\$1.20.

**Dog Rub.**—A splendid liniment. 60c.

**Eye Wash.**—60c.

**Mange Medicine.**—65c.

**Pepsin Tablets.**—60c.

**Rheumatic Pills.**—60c.

**Running, Marking and Fit Remedy.**—\$1.75.

**Skip-Flea Powder.**—For dogs or cats. 25c.

**Skip-Flea Soap.**—Kills Fleas and lice. 25c.

**Sure Shot Capsules.**—For worms. 60c.

**Sure Shot Liquid.**—For worms. 60c.

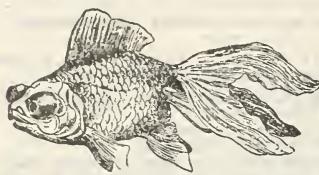
**Tape Worm Medicine.**—60c.

**Well Mouth.**—For sore mouth, black tongue, 60c.

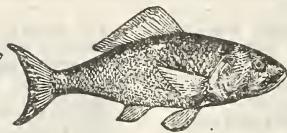
**FREE ON REQUEST.**—Sargent's 46-page illustrated Dog Book, full of interesting and valuable information. Don't fail to ask for it.

# GOLDFISH, GLOBES, FOOD, ETC.

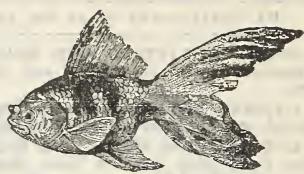
We are the largest retail and wholesale dealers in Fancy Gold Fish in the Northwest, often having a thousand or more on display in our large aquarium at our stores.



Chinese Telescope



American Gold Fish



Japanese Fan-Tail

An aquarium is a beautiful ornament. It suits everywhere—parlor, library, dining and sitting room, and may indeed be introduced in apartments of the sick. The bright, active Gold Fish are very interesting, a perpetual source of amusement for both old and young folks. Children are always delighted with them.

**CARE OF GOLDFISH.**—Very simple and little trouble. The water in the aquaria must be changed from one to six times a week, depending on the size of the globe, number of fish and the temperature of the room. When fish come to surface and gasp for air they should be given fresh water. Keep the aquaria out of hot sunlight and in a cool place.

**NOTE.—ALL SHIPMENTS** (outside of the city) must go by express. A charge of 25c is made to cover cost of Shipping Bucket, holding from two to eight fish. Gold Fish can be shipped safely overland hundreds of miles. **THEY CANNOT BE SENT BY MAIL.**

## Price List of Fish

**AMERICAN GOLD FISH.**—Very hardy and lively. Each, very small, 25c; small, 35c; medium, 50c; medium large, 60c; large, 8 to 4 inches, \$1.75; extra large breeders, \$2.00 to \$3.00; fancy tri-colored, small to medium, 50c to \$1.50 and up.

**JAPANESE GOLD FISH—FAN-TAILS.**—These have spreading tails of a delicate lace-like appearance, very showy and attractive. Price, small, 35c; medium, 50c; large, 75c to \$1.00 and up to \$3.00. Tri-colored, golden-red, pearly-white, and black, showing two or all three colors, 75c to \$1.50 each.

**COMET.**—Similar to the American, but the tail is very long, graceful and delicate. Very active. Price each, 50c, 60c, 75c, \$1.00 and \$1.50.

**CHINESE TELESCOPE.**—Curious and attractive on account of the large elongated eyes, having the appearance of a telescope. Flowing double tails. Very rare. Price each, 75c to \$1.00.

### Aquarium Scavengers

They consume the decaying matter and help keep the aquaria and water clear and clean.

**TADPOLES.**—2 to 3 inches, 15c.

**HARD SHELL ROUND SNAILS.**—15c and 25c.

**BABY TURTLES.**—About 2 inches across, in season June to December. Price, 50c or postpaid 60c.

**BOOK.**—“The Aquaria and Care of Fish”; paper cover, 35c, postpaid.

## AQUARIA PLANT OR FISH MOSS

This water plant improves the appearance of the aquaria or globe and helps purify the water, also keeps the water fresh longer. Price per bunch, 25c, postpaid.

**WHEN?** We have the largest supply of Gold Fish on hand during the FALL, WINTER and EARLY SPRING. It is not safe to ship fish during the hot summer months.

## GOLD FISH FOODS, ETC.

Prices, postpaid, 5c less at our store.

**FEEDING.**—The only safe diet is our prepared Fish Foods, fed daily and only what they will eat up quickly. Don't overfeed.

**H. Q. NATURAL FISH FOOD.**—Our own make. A combination of foods properly blended to assure the healthy condition of the fish. It is rich in body-building elements, which must be supplied to the fish. (See cut.) Per box, 20c, postpaid.

**GROUND SHRIMP.**—Prepared to keep; excellent change for fish. Price, 30c.

**ANT EGGS.**—For fish and birds. 30c.

**ZEKE.**—Dried tropical flies, for fish and birds. Pkg., 25c.

**RICE WAFER OR FLAKE.**—This gets buggy and we have quit stocking it. H. Q. Natural Food is better.

**SPRATT'S AQUARIUM FISH FOOD.**—20c.

**FISH DIP NETS.**—Long handles. Small, 25c; medium, 50c; large, 6-inch, 75c.

**JUSTRITE FISH TONIC.**—20c.

**JUSTRITE WAFER FISH FOOD.**—15c.

**JUSTRITE TURTLE FOOD.**—20c.

**JUSTRITE WHITE FUNGUS REMEDY.**—35c.

**AQUARIA CEMENT.**—35c.

**TU JOE FISH FUNGUS REMEDY.**—30c.

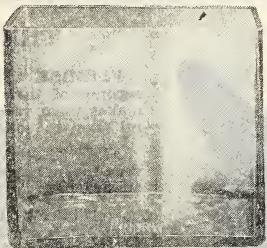
**TU JOE FISH TONIC.**—30c.



## Fish Globes—Aquariums—Castles



Fish Globe.



Aquarium.



Squat Globe.

## FISH GLOBES—AQUARIUMS

The globe and squat style can be set on the table or sideboard, or suspended by brass chains; the most popular. We also have ornamental wrought iron folding stands for globes at 75c to \$1.25.

Cannot be Mailed.

Note.—Packing charge 10c per gal. extra.

**MOLDED GLOBES**—Clear, white, heavy glass, popular sellers. Each, 1 qt., 35c;  $\frac{1}{2}$ -ga., 50c; 1 gal., 85c; 2 gal. \$1.50; 3 gal. \$2.25; 5 gal., \$4.60.

**SQUAT GLOBES**.—A new, popular style, wider and flatter than above; not so easy to tip over. Each,  $\frac{1}{2}$  gal., 50c; 1 gal., 85c; 2 gal., \$1.50; 3 gal., \$2.25.

## SQUARE AQUARIUMS—ALL GLASS

The latest thing in the square or oblong style. The old styles with the metal corners (as shown in illustration), unless handled with the most careful care, would invariably leak and cause much trouble.

The new, all glass, are made by special process, are of heavy polished glass, smooth edges and corners, and when filled with water are "clear as a bell."

Each	\$4.85
NO. 2.— $6\frac{1}{2}$ x $9\frac{1}{2}$ x $8\frac{3}{4}$ , 2 gals.	5.85
NO. 3.— $7\frac{1}{2}$ x $11\frac{1}{2}$ x $9\frac{1}{4}$ , $3\frac{1}{4}$ gals.	7.35
NO. 4.— $9\frac{1}{2}$ x $14\frac{1}{2}$ x $10\frac{1}{2}$ , $5\frac{1}{2}$ gals.	8.35
NO. 5.— $11\frac{1}{2}$ x $16\frac{1}{2}$ x $11\frac{1}{4}$ , $8\frac{1}{2}$ gals.	9.85

## AQUARIUM STANDS AND GLOBES

We have in stock fancy 4-foot wrought iron stands with large round shallow globes, range in price from \$7.50 to \$25.00 each.

## AQUARIUM CASTLES

Made out of special prepared white clay or coral, artistic in shape and they add much to the appearance of the Aquaria. (See cut below.)

NO. 20, 4 inches high, 50c; NO. 21,  $4\frac{1}{2}$  inches, 65c; NO. 22, 3 inches, 35c; NO. 23, 3 inches 40c; NO. 24, 5 inches, \$1.00; NO. 25, 5 inches, 65c; NO. 26, 4 inches, coral 35c; 6 to 8 inches, coral \$1.00 to \$1.25; NO. 27,  $3\frac{1}{2}$  inches, 35c; NO. 28, pot style to grow water plants in, 35c. We have many other styles and in larger sizes, in price from \$1.00 to \$3.50 each, but the above are the most popular sizes.



## AQUARIUM-GLOBE ORNAMENTS

We have a large assortment of various kinds and list the most popular sellers. Prices postpaid:

**MERMAIDS**.—75c to \$1.00 each; **FISHING BOY**.—Cupid, Darkey or White Boy, all complete with rod and fastener, each, 75c; **DIVING GIRL** in bathing suit, 75c; **ORIENTAL BALANCING BIRDS**.—20c, 6 for \$1.00; **HAPPY JOE**.—Funny Boy (4 in.), 85c; **FLOATING GOOSE** (5 in.), 35c; **WHITE SWAN**, 25c; **DUCKS**, 20c; **GLASS BALLS**, 20c; **SEA SHELLS**, 50c lb.; **PEARL CHIPS**, 35c lb.; **CAT** with fish, 65c.



An imported line of new style Aquarium Castles, light in weight, perfect in style and workmanship.

## Rabbits, Rabbit Foods, Remedies, Supplies

### TATTOO EAR MARKERS

Easy to Use—Well Made  
4 Styles—75c, \$1.00,  
\$1.25 and \$2.50  
Ink, 25c Extra



### LESLIE PET-LICKS

Rabbits, Cavies and Pigeons need salt and it should be before them at all times. Pet-Licks are of high quality salt and the correct percent of sulphur. Nail or wire up out of the litter, but within easy reach.

Prices: 2 for 15c; screw-top carton of 10 cakes (wgt. 2 lbs.), 60c; add postage if wanted by mail.

### GOOD RABBIT BOOKS

#### THE BEST AND MOST UP TO DATE

**THE RABBIT BOOK.**—By Washburn; 12 chapters, 88 illustrations, 195 pages. Latest and best rabbit book to date. \$3.60 postpaid.

**CARE AND MANAGEMENT OF RABBITS.**—By Sherlock. Complete guide, 25 chapters, 253 pages. \$1.00.

**RABBIT CULTURE AND STANDARD.**—By Roth, Cornman and Judge Deardorff. Paper cover, illustrated, 128 pages. 65c.

### RABBIT AND CAVY FEEDERS

**MOE'S RACK.**—Use this sanitary feeder. Put hay, vegetables or green feed in the top and grain in the bottom. 12 in. high, 9 in. wide. (P. P. wgt.  $2\frac{1}{2}$  lbs.) Price, 75c

Note—This is also an excellent feeder for poultry. See page 122.

### THE BEST RABBITS

**FLEMISH GIANT—BELGIAN.**—Very popular on account of their large size and quick growth, which makes them valuable for market. Color, light squirrel grey to solid black.

**NEW ZEALAND REDS.**—A hardy, sturdy strain, very popular and much in demand; meat fine in quality and flavor. Color, red.

**WHITE ENGLISH.**—Very popular pets with children as their white coats and pink eyes make them attractive. Always in demand as Easter Rabbits.

**RABBIT PRICES:** Young, 2 to 3 months, \$2.50 each; \$4.00 pair. Breeding age, 6 mo. or over, \$5.00 each; \$8.00 pair. Does bred, \$2.00 extra.

### RABBIT REMEDIES

All tried and tested, full directions on each package. Prices postpaid:

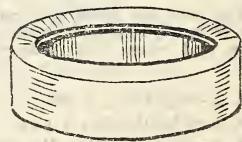
Cold Remedy—Small, 60c; large .....	\$1.10
Ear Canker—Sore ears .....	.60
Slobber Remedy—Sure cure .....	.60
Eye Remedy .....	.60
Sore Hock .....	.60
Vent Ointment .....	.60
Diarrhoea Remedy .....	.75
Tonic and Regulator—16-oz. .....	.65
Klo-Fen—For colds and nasal disorders, 4-oz. bottle, 75c; pint, \$2.00; syringe, extra.....	.50
Best cure known.	

### RABBIT AND CAVY DISHES

**No. 2.**—Earthenware, heavily glazed; the incurving top rim prevents the nosing out of feed; water can not spill out

Small size weight 2 lbs.; large, 3 lbs.

Prices: 6-in., 15c ea.; \$1.50 doz.; 8-in., 20c ea., doz. \$2.25. Not mailable.



**NOTE.—PACKING FOR SHIPMENT** 50c DOZ. EXTRA.

**FEHR'S IMPROVED SELF-CLOSING WIRE HAY RACKS.**—Very convenient; keep the hay off the floor. Each, 25c; doz., \$2.50

## CAVIES—GUINEA PIGS

Bright, active and harmless pets. They are in much demand and money can be made raising them. They come in combination colors of brown, white, yellow, black and tan; generally spotted and prettily marked. Solid colors are not always obtainable and are higher in price.



English Cavy (Guinea Pig)

**ENGLISH.**—Smooth, short hair; hardy and healthy. Young females, \$1.00; young males, 75c and \$1.00; old females, \$1.50; males, \$1.00 and \$1.25. A select breeding pair, \$2.50.

### BOOKS ON CAVIES—GUINEA PIGS

**RAISING AND CARE OF GUINEA PIGS.**—Full of valuable information; nicely illustrated (by A. C. Smith). Price 60c, postpaid.

**CAVIES FOR PLEASURE AND PROFIT.**—An excellent book complete in every way; well worth the price (by Deicke). Price, postpaid, \$1.60.

# REFERENCE TABLES

Quantity of Seeds to produce a given number of plants or to sow an acre

## Vegetable Seeds

	Per Acre	Per Acre	
Asparagus—1 oz. to 400 plants.....	4 lbs.	Leek—1 oz. to 200 ft. drill.....	3 lbs.
Beans, Dwarf—1 lb. to 125 ft. drill.....	40 lbs.	Lettuce—1 oz. to 200 ft. drill.....	3 lbs.
Pole—1 lb. to 150 ft. drill.....	35 lbs.	Melon, Musk—1 oz. to 100 hills.....	2 lbs.
Pole—1 lb. to 200 ft. hill.....	25 lbs.	Water—1 oz. to 25 hills.....	2 lbs.
Field—1 lb. to 200 ft. drill.....	35 to 45 lbs.	Okra—1 oz. to 100 ft. drill.....	5 lbs.
Lima—1 lb. to 75 hills.....	35 lbs.	Onion Seed—1 oz. to 150 ft. drill.....	3 lbs.
Beet, Table—1 oz. to 60 ft. drill.....	6 lbs.	For Sets.....	50 lbs.
Mangel—1 oz. to 75 ft. drill.....	5 lbs.	Onion Sets—1 lb. to 35 ft. drill.....	200 lbs.
Broccoli—1 oz. to 3,000 plants.....	3 ozs.	Parsnips—1 oz. to 200 ft. drill.....	3 lbs.
Brussels Sprouts—1 oz. to 3,000 P....	3 ozs.	Parsley—1 oz. to 350 ft. drill.....	2 lbs.
Cabbage—1 oz. to 3,000 plants.....	4 ozs.	Peas, Dwarf—1 lb. to 125 ft. drill.....	75 lbs.
Carrot—1 oz. to 150 ft. drill.....	2 1/2 lbs.	Tall—1 lb. to 150 ft. drill.....	60 lbs.
Cauliflower—1 oz. to 4,000 plants.....	3 ozs.	Pepper—1 oz. to 2,000 plants.....	4 ozs.
Celery—1 oz. to 5,000 plants.....	4 ozs.	Potatoes—(15 lbs. to 100-ft. row).....	800 to 1000 lbs.
Chicory—1 oz. to 100 ft. drill.....	4 lbs.	Pumpkin—1 oz. to 25 hills.....	3 to 4 lbs.
Corn, Sweet—1 lb. to 150 ft. drill.....	15 lbs.	Radish—1 oz. to 100 ft. drill.....	10 lbs.
Sweet—1 lb. to 160 hills.....	12 lbs.	Rutabaga—1 oz. to 250 ft. drill.....	1 to 2 lbs.
Corn Salad—1 oz. to 50 ft. drill.....	5 lbs.	Salsify—1 oz. to 100 ft. drill.....	8 lbs.
Cucumber—1 oz. to 100 hills.....	2 lbs.	Spinach—1 oz. to 100 ft. drill.....	8 lbs.
Endive—1 oz. to 300 ft. drill.....	2 lbs.	Squash, Summer—1 oz. to 30 hills.....	3 lbs.
Horseradish Roots.....	10 to 15 M	Winter—1 oz. to 25 hills.....	3 lbs.
Kale, Table—1 oz. to 3,000 plants.....	1 lb.	Tomatoes—1 oz. to 3,000 plants.....	2 to 3 ozs.
Stock—1 oz. to 300 ft. drill.....	1 to 2 lbs.	Tobacco—1 oz. to 4,000 plants.....	—
Kohl-Rabi—1 oz. to 300 ft. drill.....	2 lbs.	Turnips—1 oz. to 250 ft. drill.....	1 to 2 lbs.

## Field, Farm, Grass and Clover Seeds

	Quantity Per Acre	Quantity Per Acre	
Alfalfa.....	12 to 15 lbs.	Rye Grass—for pasture.....	20 to 30 lbs.
Artichokes.....	400 to 600 lbs.	Rye Grass—for Lawn.....	100 lbs.
Barley—(drills 75 lbs.).....	broadcast 100 lbs.	Sudan—drills.....	3 to 5 lbs.
Buckwheat—(drills 35 lbs.).....	broadcast 50 lbs.	Broadcast.....	16 to 20 lbs.
Cheat.....	75 to 100 lbs.	Kaffir Corn—drills.....	6 to 10 lbs.
Clover—Alsyke and White.....	6 to 8 lbs.	Millet.....	20 to 30 lbs.
White for lawn.....	1 lb. to 20 ft. square	Oats—for Seed.....	75 to 100 lbs.
Crimson.....	15 to 20 lbs.	For Hay.....	100 lbs.
Red.....	10 to 12 lbs.	Potatoes—(60 lbs. per bushel).....	15 to 18 bu.
Sweet.....	15 to 20 lbs.	Peas, Field—100 lbs. or 80 lbs. with 35 lbs. Oats.....	—
Corn, Field—Hills.....	10 to 12 lbs.	Rape—(drills 3 lbs.).....	broadcast 5 lbs.
For Fodder, drills.....	50 lbs.	Rye—for Grain.....	60 to 75 lbs.
Flax.....	35 to 45 lbs.	For turning under.....	100 lbs.
Grass, Kentucky Blue—Pasture.....	20 to 30 lbs.	Speltz or Emmer.....	80 lbs.
Kentucky Blue—for Lawns.....	1 lb. to 15 ft. sq.	Sugar Cane.....	10 to 12 lbs.
Mixed Lawn.....	1 lb. to 15 ft. sq.	Sunflower.....	5 to 7 lbs.
Red Top—Hulled, Solid Seed.....	8 to 10 lbs.	Timothy.....	10 to 12 lbs.
Orchard.....	25 to 30 lbs.	Vetches—80 lbs. or 60 lbs. with 40 lbs. Oats.....	—
Brome Grass.....	20 to 30 lbs.	Vetch, Hairy or Sand.....	30 lbs.
		Wheat.....	90 to 120 lbs.

## Suitable Distance for Planting Trees and Plants

Note.—Depending on method of cultivation. In planting in the home garden for hand cultivation you can set plants or trees closer.

Apples, Standard.....	25 to 35 feet	Strawberries, in Hills.....	2 by 3 feet
Apples, Dwarf.....	10 to 12 feet	Strawberries, Matted Rows.....	2 1/2 by 4 feet
Pears, Standard.....	20 to 25 feet	Asparagus, in Beds.....	1 by 1 1/2 feet
Pears, Dwarf.....	10 feet	Asparagus, in Field.....	1 by 4 feet
Peaches and Apricots.....	18 to 22 feet	Rhubarb.....	3 by 6 feet
Cherries, Sweet.....	30 to 35 feet		
Cherries, Sour.....	18 to 22 feet	Logans and Cory Blackberries—	
Plums and Prunes.....	20 to 25 feet	Rows.....	6 to 9 ft. apart
Quinces.....	15 to 18 feet	Plants in the row.....	6 to 10 ft. apart
Walnuts.....	40 to 50 feet		
Currants.....	3 by 6 feet	Grapes—	
Gooseberries.....	4 by 6 feet	Rows.....	6 to 9 ft. apart
Raspberries.....	3 by 6 feet	Plants in the row.....	6 to 10 ft. apart

## Number of Trees or Plants On An Acre

1 by 2 feet.....	21,780	3 by 5 feet.....	2,904	12 by 12 feet.....	302
1 by 3 feet.....	14,520	3 by 6 feet.....	2,420	15 by 15 feet.....	193
1 by 4 feet.....	10,890	4 by 4 feet.....	2,722	16 by 16 feet.....	170
1 1/2 by 2 feet.....	14,520	4 by 6 feet.....	1,815	18 by 18 feet.....	135
1 1/2 by 3 feet.....	9,680	6 by 8 feet.....	907	20 by 20 feet.....	109
2 by 3 feet.....	7,260	6 by 6 feet.....	1,210	25 by 25 feet.....	70
2 by 4 feet.....	5,445	8 by 8 feet.....	680	30 by 30 feet.....	48
3 by 4 feet.....	3,680	10 by 10 feet.....	430	40 by 40 feet.....	27

RULE.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet, for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants to the acre.

HIGHEST QUALITY



Lily Special  
This Collection of Six Hardy  
Varieties for Only \$2.35 Post Paid  
See Index for 22 Kinds

**Routledge**  
**Seed & Floral Co.**

Portland, Ore.